

**BULLETIN**  
*of* **CARNEGIE MUSEUM OF NATURAL HISTORY**

**WEIGHTS OF 151 SPECIES OF PENNSYLVANIA  
BIRDS ANALYZED BY MONTH,  
AGE, AND SEX**

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## INTRODUCTION

In 1961 Carnegie Museum of Natural History initiated a bird-banding program at its field research station, Powdermill Nature Reserve. The Reserve is located in the Ligonier Valley, which at its latitude is the westernmost valley of the Allegheny Mountains. The banding station is approximately three miles south of Rector, Westmoreland County, Pennsylvania (40°10'N, 79°16'W).

The Powdermill program has concentrated primarily on the study of small land birds, by using 30- and 36-mm mesh mist nets; larger birds are sometimes captured in traps or in nets of larger mesh. During the banding procedure the following data are routinely recorded: band number, species, age and sex (when possible), date, time of day, wing chord measurement, fat index, and weight. Since the autumn of 1966, many of the passerines also have been examined for the degree of skull pneumatization, to determine age.

As the Powdermill program has become better known to the ornithological community, we have received many requests for data from our files, particularly for weights. The types of studies prompting these requests have been remarkably diverse. For example, bird weights are used by theoretical ecologists concerned with biomass calculations; by laboratory physiologists needing comparative data from normal wild birds; and, of course, by ornithologists and banders for taxonomic, zoogeographic, and many other types of studies.

Weight data also have some unexpected applications. For instance, we have been asked on two different occasions to supply British ornithologists with weights of common North American species. In both cases vagrant birds of North American origin had appeared in England and it was suspected that they might have reached those shores by "assisted passage" rather than having flown (or been blown) there on their own. Both vagrants had been weighed when they were found in England, but normal weights for migrating individuals of their species could not be located in the literature for comparison. Another unusual request for a bird weight came from an experimental engineer. During a test flight of a new jet airplane, a small bird had collided with the plane's windshield. The glass broke, the plane went out of control and crashed, with the pilots ejecting safely. The company that had developed the glass for the windshield asked us for the weight of the bird species involved. That figure was

critical for their calculations on the force that had broken the glass, in order to strengthen the windshield in the next model.

Although weights of many eastern North American species can be found in the literature, most represent single birds or small samples, often without full supporting data (date, locality, age, sex). Seldom have they represented sufficiently large samples to be useful to researchers. In addition, some of the published weights have been incidental to the main study and hence are difficult to locate from the paper's title. Weight data are also widely scattered through the literature. An incomplete manuscript bibliography of bird weights and their evolutionary interpretation compiled by G. A. Clark, Jr. in 1976 contains almost 600 titles gleaned from both ornithological and non-ornithological sources. Therefore, seeing a need for a compilation of adequate samples of the weights of North American birds, we present here an analysis of much of the data from the Powdermill program accumulated through the spring of 1974: 97,762 weights from 151 species.

All of the weights in this study are from living, banded birds. The birds are weighed, while being restrained in a sock or plastic cone, on a triple-beam balance. The scales are counterbalanced against the sock or cone and hence the weight of the bird alone is read directly, to the nearest 0.1 gram. The sex of the bird is recorded as M (male), F (female), or U (unknown). In species that are not sexually dimorphic in plumage, the sex of some individuals has been determined during the breeding season by the presence of a brood patch or cloacal protuberance, changes in eye or mouth color, etc.

The age designations are the same as those currently in use by the Bird Banding Laboratory, U.S. Fish & Wildlife Service: HY = a bird in its *hatching year*, up to 31 December in its first year of life; SY = *second year*, the calendar year after the bird was hatched; ASY = *after second year*; TY = *third year*; ATY = *after third year*; AHY = *after hatching year*, but precise age not known; and U = *unknown*, age not determined. Among the birds aged specifically SY through ATY, some have been thus recorded through plumage characteristics or skull pneumatization, but most are birds that were originally banded as HY and subsequently rehandled. Those recorded as age unknown are birds banded after the breeding season has begun and

before 31 December: primarily non-passerines that cannot be aged by skull pneumatization or plumage, passerines in which the skull may pneumatize early, and certain other autumn-banded passerines handled before 1966 when we first began to examine skulls routinely. A few birds were not recorded by age or sex inadvertently, or because they were in anomalous plumage.

Nomenclature follows *The A.O.U. Check-list of North American Birds* (American Ornithologists' Union, 1957) and *Supplements* (Auk 90: 411–419, 1973 and Auk 93: 875–879, 1976). Included in the list of species is one composite, "Traill's Flycatcher." This name includes the Alder and Willow flycatchers, which cannot safely be distinguished in the hand. Also in the list are several hybrid types such as "Brewster's Warbler" and "Lawrence's Warbler."

The sample sizes range from one (eight species) to 7,715 (Dark-eyed Junco). We have included the very small samples because even though they represent only one or two birds, they may well be the only, or among the very few, published weights for those species (e.g., Least Bittern, Boreal Chickadee). The weights are analyzed by age/sex class by month. In the smaller samples the data are arranged linearly as follows:

Sample size in parentheses (N); age/sex class; month; weight in grams (means of two or more weights italicized).

The larger samples are arranged in table groupings:

(N)	sample size
Mean	weight to 0.1 grams, italicized
[1 standard deviation]	in samples of 5 or more
Minimum weight in sample	weight range within sample
Maximum weight in sample	

Note that the 97,762 weights here recorded are not from 97,762 different birds. Most of the birds are, of course, weighed only once—at the time of banding. But the study also includes many thousands of birds that have been weighed several times: migrants that are recaptured within a few hours or days of banding, and resident birds that are repeatedly captured throughout their lifetime. Each recapture weight has been included in its appropriate category. For example, if a Black-capped Chickadee were banded and weighed as an HY-U in September, then were recaptured the following June and could be sexed as a male from its cloacal protuberance, its recapture weight would be entered in the SY-M category for June, and the original weight

in the HY-M September category. Known age birds were carried through their third year (TY) in detail, and then grouped as ATY thereafter.

The reader will notice that the standard deviation values for many samples are large. These reflect several factors: weights can vary greatly during the breeding season (a female with a mature egg will weigh well above the mean), and the contents of the stomach and gut have a strong effect on the overall live weight (a thrush that has just filled its stomach with wild cherries, with pits, will weigh considerably more than a newly arrived migrant of the same species that has not yet fed). Whether or not a bird has recently defecated also has some effect, but most birds do so during the handling process and before they are weighed. The most important variable that affects weight is the quantity of fat deposits within the body and under the skin. To illustrate the effect of fat, we cite the extreme case of a recently handled migrant Cape May Warbler: the bird was banded as an HY-F in September with no visible fat (index of 0) and weighing 9.2 grams (10.0 is the mean for that category). It was recaptured several weeks later, with maximum fat (index 3) and weighing 15.8 grams—a 72% gain over the original weight. Resident birds, in contrast, show little weight and fat index variation. A Tufted Titmouse that has been weighed 16 times over a ten-year period has only varied between 19.3 and 21.4 grams, always with a fat index of 0 or 1.

Although we are well aware that the weight of a bird is biologically more meaningful when related to the fat index of that bird, we did not attempt to include fat indices in this analysis. With a possible 21 different age/sex classes, analyzed by the 12 months of the year, some species could yield a table with 252 groups. Breaking the age/sex classes further into the four fat index classifications (0–3) would be too unwieldy for a study of this sort. Detailed analysis of weight variation is also more meaningful when correlated with each individual's body size, but similarly, such a fragmentation would be inappropriate for this study. The Powdermill banding records are, however, being entered into an electronic data processing system and analyses of weight by fat index and/or body size class could be made in the future. We are also, of course, continually adding data to our files at the rate of over 10,000 per year. Requests for special analyses may be possible to fill: address the Section of Birds, Carnegie Museum of Natural History, Pittsburgh, Pennsylvania 15213.



## ACKNOWLEDGMENTS

A study of this magnitude has had many contributors. First and foremost we thank A. C. Lloyd for his many years of devoted service as a volunteer in the Powdermill banding program. We also thank the dozens of people, too many to name individually, who have helped in a variety of ways with the banding since 1961, and the several clerks who have kept our banding records. This analysis was largely accomplished by two research assistants: Dr. Gail Schiffer, who began the data compilation and statistical work, and Mr. G. Thomas Bancroft, who

saw the task to completion and ran most of the analyses on the University of Pittsburgh computer. Marilyn Niedermeier volunteered to copy the results into a uniform format for typing. She was assisted in proof reading by Thomas E. Herman and Miriam A. Stern. Cynthia Kraus typed the manuscript. The assistance of Dr. Schiffer and Mr. Bancroft was supported by the Powdermill Research Fund through the generosity of Mrs. Cordelia S. May.

Pied-billed Grebe	<i>Podilymbus podiceps</i>											n = 3
(1) HY-U, Sept., 429.4; (1) AHY-U, Sept., 341.1; (1) U-U, Oct., 229.0.												
Green Heron	<i>Butorides striatus</i>											n = 5
(1) HY-U, July, 186.8; (1) HY-U, Sept., 171.2; (1) HY-U, Oct., 210.6; (1) AHY-U, June, 236.7; (1) SY-U, June, 215.2.												
Least Bittern	<i>Ixobrychus exilis</i>											n = 1
(1) AHY-U, May, 115.5.												
Goshawk	<i>Accipiter gentilis</i>											n = 1
(1) HY-U, Nov., 444.5.												
Sharp-shinned Hawk	<i>Accipiter striatus</i>											n = 12
(1) HY-F, Oct., 159.2; (1) HY-M, Sept., 91.0; (1) HY-U, Sept., 93.0; (1) HY-U, Nov., 115.8; (1) AHY-M, Apr., 101.5; (1) SY-F, Apr., 184.1; (2) SY-M, Apr., 92.2, 97.3 (94.8); (1) SY-U, Apr., 102.5; (1) ASY-M, Mar., 88.5; (1) ASY-U, Apr., 100.9; (1) ASY-U, Nov., 101.8.												
Broad-winged Hawk	<i>Buteo platypterus</i>											n = 4
(3) AHY-U, Apr., 311.2, 452.2, 472.2 (411.9); (1) AHY-U, May, 360.7.												
Ruffed Grouse	<i>Bonasa umbellus</i>											n = 3
(1) HY-U (poult), July, 171.7; (1) AHY-F, July, 516.3; (1) AHY-M, Oct., 506.8.												
Bobwhite	<i>Colinus virginianus</i>											n = 1
(1) AHY-M, May, 162.7.												
Virginia Rail	<i>Rallus limicola</i>											n = 2
(1) AHY-U, Apr., 79.5; (1) AHY-U, May, 90.2.												
Sora	<i>Porzana carolina</i>											n = 3
(2) HY-U, Sept., 77.8, 84.2 (81.0); (1) AHY-U, May, 85.0.												
American Woodcock	<i>Philohela minor</i>											n = 34
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F									(4) 160.6 139.3 179.4	(2) 183.0 179.4 186.6		
HY-M								(1) 141.0	(2) 142.4 127.2 157.6	(2) 155.4 135.4 175.5	(1) 159.0	
HY-U								(1) 142.2		(1) 191.5		
AHY-F				(1) 200.0	(1) 200.5				(2) 191.7 184.7 198.7	(1) 187.6		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-M			(1) 134.3	(2) 123.2 116.1 130.4	(4) 151.2 135.1 183.1					(1) 152.4		
AHY-U				(2) 130.6 127.3 133.9	(1) 111.8							
U-U									(2) 153.9 144.7 163.1	(2) 169.4 134.4 204.4		

## Common Snipe

*Capella gallinago*

n = 5

(1) HY-U, Oct., 125.4; (1) AHY-U, Mar., 96.0; (1) AHY-U, Apr., 118.6; (1) U-U, Sept., 110.8; (1) U-U, Oct., 125.4.

## Spotted Sandpiper

*Actitis macularia*

n = 46

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-U				(6) 40.6 [3.53] 35.5 44.6	(32) 39.9 [4.95] 32.8 53.1		(2) 39.9 33.8 46.0					
U-U							(1) 39.6	(2) 37.0 33.7 40.2	(3) 54.6 46.1 59.8			

## Solitary Sandpiper

*Tringa solitaria*

n = 6

(2) AHY-U, Apr., 48.1, 56.9 (52.5); (3) AHY-U, May, 46.2, 52.6, 53.4 (50.7); (1) U-U, Sept., 60.7.

## Pectoral Sandpiper

*Calidris melanotos*

n = 1

(1) HY-U, Sept., 44.8.

## Mourning Dove

*Zenaida macroura*

n = 16

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-F			(2) 140.3 138.1 142.5	(1) 130.8	(3) 128.1 119.7 132.5							
AHY-M		(1) 126.5	(2) 138.0 135.2 140.9	(1) 135.0	(3) 136.7 128.7 143.3	(1) 134.0						
AHY-U				(1) 122.1	(1) 160.0							

## Yellow-billed Cuckoo

*Coccyzus americanus*

n = 90

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(2) 42.4 41.3 43.5	(2) 50.8 50.2 51.4	(1) 74.3		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-F						(1) 55.7						
AHY-M						(1) 53.6						
AHY-U					(40) 64.5 [8.62] 52.0 81.5	(27) 70.8 [8.04] 51.0 84.6			(5) 60.1 [6.79] 50.5 68.0	(3) 55.1 50.0 61.2		
U-U									(2) 55.3 54.2 56.4	(6) 56.6 [5.78] 48.7 63.6		

## Black-billed Cuckoo

*Coccyzus erythrophthalmus*

n = 71

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U							(5) 39.1 [2.25] 35.1 40.5	(1) 44.4	(3) 46.3 44.3 49.8	(2) 51.6 46.4 56.8		
AHY-F					(1) 64.4			(1) 52.8				
AHY-M					(1) 53.4							
AHY-U					(35) 51.8 [6.15] 40.9 63.2	(9) 53.4 [7.79] 44.2 64.9	(1) 49.9	(1) 43.4				
U-U								(4) 45.7 41.5 55.5	(1) 47.8	(6) 52.6 [7.60] 41.8 61.2		

## Screech Owl

*Otus asio*

n = 9

(1) HY-U, Sept., 140.1; (2) AHY-U, Mar., 154.3, 170.3 (162.3); (1) AHY-U, Apr., 160.8; (1) AHY-U, May, 165.9; (3) U-U, Sept., 153.3, 157.9, 166.6 (159.3); (1) U-U, Nov., 176.0.

## Saw-whet Owl

*Aegolius acadicus*

n = 7

(2) HY-U, Nov., 74.5, 88.4 (81.4); (1) AHY-U, Mar., 72.6; (1) AHY-U, Apr., 90.8; (1) AHY-U, Oct., 81.7; (1) U-U, Oct., 97.6; (1) U-U, Nov., 87.3.

## Whip-poor-will

*Caprimulgus vociferus*

n = 4

(1) HY-F, Sept., 51.4; (1) AHY-M, May, 56.5; (1) AHY-M, Aug., 54.6; (1) U-U, Sept., 55.4.

## Chimney Swift

*Chaetura pelagica*

n = 2

(2) U-U, Sept., 19.5, 21.3 (20.4).





Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U-M								(1) 136.8	(5) 135.5	(2) 171.7		
									[11.56]	170.8		
									126.5	172.6		
									155.0			

## Common Flicker (Yellow-shafted Flicker)

*Colaptes auratus*

n = 167

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(1) 138.5	(1) 113.3	(1) 141.7		
HY-M								(2) 129.8	(1) 141.4			
								125.2				
								134.3				
HY-U								(2) 127.8				
								125.2				
								130.5				
AHY-F			(2) 127.4	(30) 127.0	(7) 129.3	(1) 110.1	(1) 126.3					
			117.4	[9.72]	[6.19]							
			137.5	106.2	119.0							
				154.6	135.6							
AHY-M	(1) 148.3		(3) 129.1	(38) 136.1	(13) 132.2	(1) 137.0	(2) 134.1					
			113.9	[10.12]	[6.20]		125.1					
			149.2	117.7	120.7		143.1					
				160.2	140.8							
U-F								(12) 129.8	(12) 135.1			
								[10.74]	[12.98]			
								111.5	110.1			
								143.3	163.7			
U-M								(8) 127.3	(15) 136.3	(11) 140.3	(2) 134.4	
								[6.45]	[9.57]	[9.75]	127.0	
								120.6	122.2	124.1	141.8	
								138.1	159.0	152.2		

## Pileated Woodpecker

*Dryocopus pileatus*

n = 4

(1) AHY-F, Apr., 269.6; (2) AHY-F, May, 250.3, 275.1 (262.7); (1) U-U, Nov., 248.1.

## Red-bellied Woodpecker

*Melanerpes carolinus*

n = 2

(1) SY-M, Jan., 80.3; (1) ASY-F, May, 74.5.

## Yellow-bellied Sapsucker

*Sphyrapicus varius*

n = 60

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F									(4) 51.8	(6) 50.3		
									45.2	[1.98]		
									59.3	47.3		
										53.0		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-M									(4) 49.7 45.6 52.4	(5) 52.6 [2.91] 48.4 55.8		
HY-U									(2) 48.0 45.5 50.4	(3) 48.0 44.0 50.6		(1) 51.1
AHY-F				(4) 51.4 46.5 57.1	(1) 47.7				(1) 52.0	(1) 46.2		
AHY-M				(14) 50.5 [5.75] 40.7 62.2					(2) 51.8 51.2 52.3			
AHY-U				(1) 51.6								
SY-F				(1) 44.2								
SY-M				(3) 54.6 48.5 59.2								
ASY-F				(4) 49.5 46.2 54.7								
ASY-M				(3) 45.3 45.1 45.6								

## Hairy Woodpecker

*Picoides villosus*

n = 51

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(1) 56.2			(1) 65.1	
HY-M							(2) 65.2 62.2 68.1		(3) 73.5 73.1 74.0	(3) 69.1 67.6 70.4		
HY-U								(1) 72.0		(1) 67.0		
AHY-F		(1) 65.9	(2) 61.3 60.6 62.0		(3) 60.6 59.3 62.5	(3) 63.5 61.9 65.6			(1) 63.2			
AHY-M	(1) 74.6	(1) 69.9		(7) 67.5 [5.88] 60.8 75.5	(5) 73.6 [3.91] 69.0 79.6			(1) 64.1		(1) 70.2		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U-F											(1) 63.2	
U-M									(3) 71.2 65.0 74.7	(6) 69.0 [2.10] 66.6 72.8	(2) 71.5 71.2 71.8	
U-U								(1) 69.1				
Downy Woodpecker	<i>Picoides pubescens</i>											
	n = 560											
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F						(1) 24.1	(5) 24.5 [0.99]	(7) 26.4 [2.09]	(16) 26.7 [1.14]	(15) 27.2 [1.16]	(7) 27.6 [1.14]	
HY-M							(6) 25.7 [1.28]	(11) 26.4 [0.71]	(21) 27.4 [1.37]	(20) 27.6 [1.37]	(14) 26.9 [2.45]	
HY-U						(3) 25.1 23.1 26.2	(18) 25.0 [1.36]	(22) 26.0 [1.18]	(6) 27.0 [1.74]	(3) 27.2 26.3 27.6		
AHY-F	(6) 27.1 [1.87] 24.1 29.2	(2) 28.2 27.1 29.2	(18) 28.0 [1.76] 25.5 30.9	(38) 27.2 [1.51] 24.1 31.6	(15) 27.3 [1.54] 25.2 30.6	(2) 25.8 25.4 26.1	(2) 25.4 24.6 26.2	(4) 26.2 25.0 26.7	(4) 26.8 25.0 30.1	(11) 27.3 [1.81] 25.4 30.3	(12) 26.8 [1.61] 24.8 30.1	(3) 28.7 26.4 30.7
AHY-M	(3) 26.6 25.1 27.9	(2) 25.9 25.7 26.1	(25) 27.4 [1.60] 25.1 31.5	(44) 27.0 [1.34] 24.4 29.8	(34) 27.4 [1.89] 20.7 30.3	(7) 25.7 [1.29] 23.4 26.8		(6) 26.9 [1.04] 25.6 28.1	(7) 26.3 [1.51] 24.6 28.2	(18) 26.9 [1.47] 23.6 30.0	(10) 28.1 [1.69] 25.6 31.3	
AHY-U				(1) 25.2								
SY-F		(1) 26.8		(1) 28.9								
SY-M				(2) 25.2 21.9 28.5	(3) 29.0 27.4 31.5							
U-F								(2) 27.4 25.9 29.0	(12) 26.7 [1.33] 24.0 28.9	(19) 27.7 [1.51] 26.0 32.2	(5) 26.5 [1.41] 24.3 28.0	(2) 27.0 25.9 28.1
U-M									(17) 26.9 [1.88] 23.5 31.4	(29) 26.0 [2.47] 21.8 30.9	(14) 27.1 [2.91] 21.2 30.3	(3) 26.2 23.8 28.5



Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U-U									(1) 28.9			
Eastern Kingbird												
<i>Tyrannus tyrannus</i>												
n = 28												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(10) 39.3 [3.14] 34.5 44.4	(5) 41.7 [3.19] 37.8 45.4			
AHY-U					(9) 39.8 [1.16] 37.4 40.8			(3) 40.7 39.0 43.4				
U-U								(1) 42.0				
Great Crested Flycatcher												
<i>Myiarchus crinitus</i>												
n = 40												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(2) 32.4 32.1 32.8	(1) 36.8			
AHY-U					(9) 33.1 [2.38] 29.7 36.9	(9) 34.5 [2.71] 30.8 38.6	(1) 34.3	(8) 33.5 [3.67] 28.0 39.5	(5) 33.1 [2.00] 31.2 35.7			
U-U								(4) 33.6 32.2 35.0	(1) 33.1			
Eastern Phoebe												
<i>Sayornis phoebe</i>												
n = 485												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U						(6) 18.3 [1.46] 16.8 20.6	(15) 17.8 [1.62] 14.0 20.3	(32) 18.6 [1.47] 15.5 21.6	(57) 19.5 [1.59] 16.2 22.8	(41) 19.6 [2.61] 11.3 23.5		
AHY-F					(3) 19.1 18.1 20.5	(1) 19.4	(1) 19.5					
AHY-M			(3) 24.0 23.2 24.4	(1) 23.2	(1) 22.4	(1) 20.0						
AHY-U			(28) 19.8 [1.82] 16.6 23.6	(63) 19.8 [1.70] 16.1 24.3	(15) 20.1 [1.02] 18.3 21.6	(2) 20.8 20.6 21.0		(35) 19.8 [1.78] 16.0 23.2	(18) 19.4 [0.68] 18.0 20.5			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U-U						(1) 16.5		(1) 18.4	(39) 19.6 [1.80] 13.3 23.0	(118) 19.7 [1.81] 11.4 23.8	(3) 20.8 19.6 21.6	

## Yellow-bellied Flycatcher

*Empidonax flaviventris*

n = 505

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-M									(1) 12.2			
HY-U								(99) 11.2 [0.89] 8.9 13.2	(226) 11.2 [0.90] 9.2 14.3	(10) 11.9 [1.44] 10.0 13.8		
AHY-F					(1) 12.7							
AHY-M					(2) 12.2 11.9 12.5			(1) 9.2				
AHY-U					(106) 11.5 [0.90] 9.5 13.9	(5) 11.6 [0.97] 10.5 12.9		(14) 12.1 [1.27] 10.2 14.8	(14) 11.9 [1.45] 9.6 15.5	(1) 11.8		
U-U							(1) 11.8	(4) 11.8 10.8 13.6	(20) 11.2 [0.92] 9.7 12.9			

## Acadian Flycatcher

*Empidonax virescens*

n = 102

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U							(3) 12.7 12.1 13.7	(21) 13.0 [1.03] 11.5 15.4	(15) 13.0 [1.01] 11.1 14.7	(1) 12.5		
AHY-F							(1) 13.2					
AHY-U					(52) 12.9 [1.11] 10.4 16.1	(3) 12.7 12.5 12.9		(4) 12.2 9.8 14.4	(1) 13.5			
U-U								(1) 12.4				

## "Traill's" Flycatcher

*Empidonax traillii* and *E. alnorum*

n = 302

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(73) 12.7 [1.00] 10.5 15.0	(54) 14.5 [2.07] 10.2 19.5	(3) 14.7 12.6 15.8		
AHY-F							(1) 12.4	(2) 11.8 11.7 12.0				
AHY-M					(1) 11.6	(1) 13.5						
AHY-U					(110) 13.5 [1.33] 9.2 16.9	(14) 12.9 [0.89] 11.4 14.4	(3) 13.3 11.1 16.0	(28) 13.4 [0.80] 11.2 14.8	(3) 13.9 13.2 11.2 14.8			
U-U									(9) 13.2 [1.69] 10.8 15.7			

## Least Flycatcher

*Empidonax minimus*

n = 1289

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U							(6) 9.2 [0.61] 8.3 10.0	(397) 10.1 [0.93] 8.2 14.1	(461) 10.3 [0.90] 7.6 15.6	(12) 10.7 [0.71] 8.1 11.8		
AHY-F					(10) 10.3 [0.97] 8.9 12.6		(4) 9.7 9.0 10.1	(4) 9.3 8.6 9.9	(7) 9.3 [0.56] 8.7 10.4			
AHY-U				(6) 10.6 [0.72] 9.5 11.4	(257) 10.3 [0.85] 8.2 12.3	(3) 10.6 10.2 10.9	(14) 10.8 [0.61] 9.8 11.6	(35) 10.3 [0.93] 8.6 13.4	(44) 10.3 [1.15] 8.4 14.9	(1) 8.6		
U-U								(9) 9.8 [0.54] 8.8 10.5	(18) 10.1 [0.71] 8.5 11.0	(1) 13.2		

## Eastern Wood Pewee

*Contopus virens*

n = 455

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U							(1) 12.9	(92) 13.0 [0.89] 10.6 15.2	(212) 13.3 [1.09] 11.0 18.7	(15) 14.2 [1.01] 12.6 16.5		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-F					(2) 15.2 14.8 15.6		(1) 14.0					
AHY-U					(38) 14.3 [0.95] 12.8 16.5	(11) 13.1 [0.70] 12.2 14.3	(6) 14.0 [0.73] 12.8 14.8	(30) 13.8 [1.07] 12.2 16.4	(35) 14.5 [1.27] 12.3 18.2	(2) 15.7 13.3 18.1		
U-U								(1) 12.5	(8) 12.8 [1.23] 10.4 14.1	(1) 14.0		
Olive-sided Flycatcher					<i>Nuttallornis borealis</i>					n = 43		
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(7) 30.4 [2.01] 28.6 34.6	(10) 31.3 [1.91] 27.8 34.0			
AHY-U					(8) 33.0 [5.16] 27.9 42.2			(6) 32.2 [2.94] 29.6 36.5	(4) 32.7 31.3 33.9			
U-U								(2) 27.5 26.7 28.3	(4) 32.0 31.3 33.0	(2) 32.0 29.9 34.0		
Tree Swallow					<i>Iridoprocne bicolor</i>					n = 28		
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-F				(2) 20.0 19.5 20.5	(4) 18.6 15.6 20.9							
AHY-M				(8) 21.5 [1.55] 19.0 23.3	(10) 19.3 [1.28] 17.4 21.3							
AHY-U				(1) 22.6	(3) 19.9 17.1 22.2							
Bank Swallow					<i>Riparia riparia</i>					n = 22		
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-U				(6) 14.6 [0.53] 13.8 15.3	(16) 13.0 [1.41] 9.9 15.3							



Rough-winged Swallow		<i>Stelgidopteryx ruficollis</i>										n = 47	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
AHY-F					(4)								
					15.6								
					14.2								
					17.2								
AHY-M				(1)	(2)								
				16.2	16.4								
					16.0								
					16.7								
AHY-U				(7)	(33)								
				16.6	15.8								
				[1.02]	[1.52]								
				15.3	10.3								
				18.0	18.3								

Barn Swallow		<i>Hirundo rustica</i>										n = 178	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U							(5)	(7)	(7)				
							19.0	18.7	19.6				
							[1.61]	[0.84]	[1.34]				
							17.7	17.7	17.3				
							21.1	20.0	21.6				
AHY-F				(7)	(39)								
				19.0	18.1								
				[1.66]	[1.93]								
				16.8	13.4								
				21.1	23.4								
AHY-M				(5)	(54)								
				20.2	18.6								
				[1.95]	[1.55]								
				17.8	15.5								
				22.5	21.7								
AHY-U				(7)	(44)								
				18.9	18.6								
				[1.78]	[1.86]								
				15.6	13.7								
				20.7	22.8								
ASY-F					(1)								
					20.0								
ATY-F					(1)								
					20.9								
ATY-M				(1)									
				18.3									

Cliff Swallow *Petrochelidon pyrrhonota* n = 3  
 (1) HY-U, Aug., 22.6; (1) AHY-U, Apr., 25.5; (1) AHY-U, May, 18.5.

Blue Jay		<i>Cyanocitta cristata</i>										n = 515	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U								(3)	(12)	(27)	(8)	(3)	
								85.3	85.6	87.3	87.0	89.2	
								80.3	[6.65]	[5.22]	[5.32]	86.8	
								87.9	74.7	77.7	79.7	92.1	
									97.5	96.6	94.4		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-F											(1) 90.4	
AHY-U	(5) 89.2 [4.73] 82.2 94.6	(9) 86.0 [6.45] 77.1 96.0	(12) 88.0 [3.74] 81.8 95.4	(8) 85.6 [5.06] 79.5 96.0	(18) 83.8 [6.55] 73.1 97.5				(12) 90.3 [4.14] 83.5 96.2	(16) 88.4 [8.47] 64.1 99.0	(7) 89.6 [4.43] 85.5 97.2	(6) 91.3 [6.01] 81.7 99.5
SY-F					(1) 79.1							
SY-U	(13) 85.4 [7.70] 69.0 97.1	(5) 79.7 [6.45] 74.4 90.9	(27) 85.3 [5.57] 75.6 101.2	(43) 86.7 [6.24] 76.1 97.7	(112) 85.2 [6.24] 72.8 99.7				(2) 82.4 80.5 84.4	(3) 88.1 82.7 94.3	(2) 90.8 90.5 91.1	
ASY-F		(1) 87.4			(1) 86.3					(1) 90.9		
ASY-M				(1) 79.4								
ASY-U	(9) 90.2 [7.23] 81.1 104.2	(7) 86.4 [7.68] 77.4 95.9	(26) 89.5 [5.74] 76.3 101.4	(41) 88.5 [6.55] 76.2 101.1	(62) 86.6 [6.15] 74.6 102.9	(1) 92.3			(1) 109.4	(1) 101.3	(4) 92.8 83.9 98.0	(1) 77.9
U-U										(1) 84.4		(2) 89.8 88.5 91.2

## Common Crow

*Corvus brachyrhynchos*

n = 1

(1) HY-U, Aug., 411.5.

## Black-capped Chickadee

*Parus atricapillus*

n = 3307

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F							(1) 10.5		(3) 10.6 10.0 11.3	(3) 10.4 9.8 10.8	(5) 10.4 [0.32] 10.0 10.8	
HY-M								(1) 10.9	(5) 11.2 [0.55] 10.8 12.2	(6) 11.2 [0.58] 10.6 12.2	(2) 11.5 11.4 11.6	
HY-U						(3) 9.7 8.9 10.4	(70) 10.3 [0.71] 8.2 11.9	(118) 10.7 [0.77] 8.9 12.6	(199) 10.7 [0.78] 8.9 12.5	(726) 10.5 [0.75] 8.3 13.5	(280) 10.7 [0.75] 8.7 12.7	(5) 10.5 [0.65] 9.8 11.4
AHY-F			(2) 10.2 10.1 10.3		(3) 10.3 9.9 10.8	(1) 9.6						
AHY-M	(3) 10.9 10.9 11.0	(2) 10.9 10.7 11.1	(3) 11.2 10.7 11.6	(2) 10.8 10.4 11.1	(6) 10.8 [0.54] 10.2 11.3	(1) 10.6			(1) 11.6		(1) 11.0	

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
AHY-U	(84) 10.8 [0.79] 9.5 13.0	(55) 10.9 [0.84] 9.2 12.6	(158) 11.0 [0.80] 9.2 13.0	(231) 10.9 [0.84] 9.2 13.2	(28) 10.8 [0.80] 9.1 12.4			(4) 10.2 9.2 10.8 11.4	(8) 10.6 [0.52] 9.6 11.8	(15) 10.6 [0.56] 10.0 11.8	(51) 10.5 [0.79] 8.9 12.8	(45) 10.8 [0.79] 9.5 12.5	(4) 10.5 9.9 11.2
SY-F			(8) 10.2 [0.52] 9.3 11.0	(3) 10.7 10.2 11.3 10.9	(2) 10.7 10.4 10.9					(3) 10.3 9.7 10.8	(1) 10.3		
SY-M			(9) 11.7 [0.33] 11.2 12.2	(3) 11.6 11.3 12.2	(5) 11.4 [0.45] 10.8 12.0	(1) 12.0		(1) 12.3	(3) 11.2 10.9 11.6	(3) 10.8 10.0 11.2 11.9	(6) 11.3 [0.47] 10.6 11.9		
SY-U	(38) 10.9 [0.92] 8.9 12.5	(7) 10.7 [0.48] 9.8 11.3	(83) 11.0 [0.72] 9.5 12.6	(34) 11.2 [1.05] 9.2 12.9	(7) 11.3 [0.33] 10.8 11.9			(3) 10.7 10.5 10.9	(10) 10.8 [0.77] 9.2 12.0	(18) 10.9 [0.91] 9.0 12.2	(13) 10.9 [0.72] 9.9 12.0	(1) 11.3	
ASY-F	(2) 10.2 9.9 10.5		(2) 11.1 10.7 11.5	(5) 11.2 [0.55] 10.6 11.8	(1) 11.4				(2) 10.3 10.0 10.6				
ASY-M			(5) 11.4 [0.23] 11.2 11.7	(2) 10.9 10.3 11.5	(3) 11.1 10.7 11.5				(1) 10.6	(1) 11.0	(2) 10.5 10.2 10.9		
ASY-U	(20) 11.1 [0.64] 9.9 12.4	(8) 11.1 [1.02] 9.5 12.0	(42) 11.1 [0.77] 9.4 12.6	(24) 11.1 [0.86] 9.6 12.7	(1) 11.0			(1) 11.2	(2) 9.6 9.5 9.7	(3) 9.8 8.2 10.9	(7) 10.5 [0.70] 9.4 11.5	(2) 11.0 10.9 11.0	
TY-F		(1) 10.9	(2) 10.5 10.3 10.6								(1) 10.1		
TY-M		(1) 11.6	(5) 11.4 [0.47] 10.8 11.9	(4) 11.4 10.5 11.9	(1) 11.8				(1) 11.7	(2) 10.9 10.4 11.3			
TY-U	(9) 11.6 [0.83] 10.1 12.7		(18) 11.5 [0.65] 10.6 12.8	(8) 11.3 [0.89] 10.3 13.1	(2) 10.9 10.7 11.1		(1) 8.8	(1) 12.3	(2) 10.6 10.5 10.7	(4) 11.0 10.3 11.6	(5) 10.4 [1.00] 9.0 11.6		
ATY-F	(1) 10.8	(1) 10.4	(1) 10.8		(1) 10.9					(1) 10.0			
ATY-M	(2) 11.3 11.2 11.3		(5) 11.3 [0.38] 10.8 11.8	(1) 11.5	(1) 10.3					(2) 10.9 10.4 11.4	(1) 10.5		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ATY-U	(15) 10.5 [0.76] 9.3 11.8	(7) 10.8 [0.70] 9.9 12.0	(57) 11.0 [0.81] 9.3 13.0	(34) 10.8 [0.79] 9.5 12.5	(3) 11.4 11.3 11.5			(2) 10.9 9.8 12.1	(6) 10.8 [0.44] 10.1 11.4	(9) 10.3 [0.92] 8.9 11.6	(13) 10.0 [0.70] 8.8 11.1	(3) 10.9 10.4 9.5 12.3

U-U							(3) 10.5 10.1 10.8	(13) 10.4 [0.83] 9.1 12.3	(64) 10.5 [0.83] 9.0 12.7	(290) 10.6 [0.71] 8.8 13.6	(134) 10.9 [0.79] 8.6 12.7	(36) 10.9 [0.67] 9.5 12.3
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## Carolina Chickadee

*Parus carolinensis*

n = 15

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U							(1) 9.8		(1) 9.5	(5) 9.0 [0.22] 8.7 9.3	(1) 9.6	

AHY-U			(1) 10.1	(1) 9.8								
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SY-U	(2) 9.2 9.1 9.4	(2) 9.4 9.4 9.5	(1) 9.9									
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## Boreal Chickadee

*Parus hudsonicus*

n = 1

(1) AHY-U, Oct., 9.7.

## Tufted Titmouse (Eastern Tufted Titmouse)

*Parus bicolor*

n = 1314

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(1) 20.5	(1) 23.3	(1) 20.4	(2) 22.7 22.5 22.8	(1) 20.8
HY-M							(1) 22.3			(1) 23.0		(1) 23.7
HY-U						(7) 21.4 [1.28] 19.2 23.5	(38) 20.4 [1.44] 17.6 24.0	(50) 21.5 [1.58] 18.7 25.0	(101) 21.8 [1.55] 18.3 25.8	(176) 21.7 [1.68] 16.7 27.5	(98) 21.9 [1.42] 18.5 24.6	(7) 22.2 [1.37] 20.0 23.6
AHY-F	(1) 20.1		(5) 20.5 [0.31] 20.1 20.9	(4) 21.2 19.6 22.2 20.9	(7) 22.0 [1.33] 20.3 24.6						(2) 21.1 20.4 21.8	
AHY-M				(1) 22.5								
AHY-U	(33) 22.4 [1.60] 18.7 25.5	(29) 21.7 [1.50] 19.3 24.3	(109) 22.0 [1.80] 18.0 27.0	(74) 21.5 [1.78] 17.2 25.5	(17) 21.6 [1.35] 19.2 23.5		(1) 19.6	(1) 19.4		(10) 21.7 [1.37] 19.5 24.0	(18) 21.2 [1.34] 18.9 24.8	(1) 23.8



Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
SY-F	(1) 20.7	(1) 20.9	(5) 21.1 [0.80] 19.9 22.1	(3) 21.5 20.7 22.1	(3) 23.0 21.1 24.6						(2) 20.7 20.4 21.0		
SY-M			(1) 22.2		(1) 21.7								
SY-U	(23) 22.4 [1.22] 20.3 24.9	(8) 22.3 [0.95] 20.3 23.3	(53) 22.7 [1.67] 17.7 26.0	(44) 22.7 [1.37] 19.0 25.3	(15) 22.2 [0.96] 20.7 23.9				(6) 21.7 [1.80] 19.4 24.0	(14) 22.3 [1.60] 19.5 24.6	(31) 21.7 [1.40] 17.4 24.7	(1) 21.9	
ASY-F			(1) 21.6										
ASY-M					(1) 22.1						(1) 23.0		
ASY-U	(2) 23.3 23.1 23.5	(2) 22.6 22.4 22.7	(18) 23.0 [1.45] 19.7 25.2	(12) 22.4 [1.62] 19.6 25.5	(8) 22.2 [1.39] 20.8 24.6	(1) 23.1				(9) 21.6 [1.16] 19.5 23.7	(10) 22.1 [1.56] 19.9 24.2	(4) 21.2 20.6 22.1	
TY-U	(6) 22.9 [4.00] 17.4 29.3	(3) 21.4 21.2 21.7	(13) 21.7 [2.32] 18.3 26.0	(9) 22.9 [1.36] 19.8 24.1	(7) 22.6 [0.83] 21.6 24.2				(1) 22.2	(9) 21.5 [1.47] 18.7 23.5	(3) 21.6 20.2 24.0	(1) 22.3	
ATY-F		(1) 20.4									(1) 21.7		
ATY-M			(2) 22.3 21.4 23.2		(3) 22.6 22.0 23.0				(1) 22.1				
ATY-U	(5) 22.7 [1.62] 20.7 25.0	(5) 22.3 [1.27] 21.3 24.5	(26) 22.5 [1.14] 20.5 25.1	(17) 22.3 [1.74] 20.5 27.2	(4) 21.3 20.4 22.4					(2) 21.8 21.0 22.6	(12) 21.7 [1.22] 20.3 24.5		
U-F										(1) 21.1	(3) 20.7 20.2 21.2		
U-U							(1) 23.3	(2) 21.2 20.3 22.0	(29) 21.7 [1.52] 19.5 24.9	(22) 22.2 [1.87] 19.3 28.9	(34) 21.4 [1.24] 18.5 24.2	(11) 22.7 [1.30] 21.3 24.8	

## White-breasted Nuthatch

*Sitta carolinensis*

n = 296

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(1) 20.7	(1) 18.4	(7) 20.7 [1.38] 19.2 23.3	(2) 20.3 20.5	

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U							(2) 19.8 19.5 20.1	(3) 21.9 20.2 23.2		(7) 20.8 [0.53] 19.9 21.2	(6) 21.2 [1.36] 19.2 22.8	(1) 21.7	
AHY-F	(4) 21.0 19.4 22.0	(5) 20.6 [1.24] 19.4 22.3	(16) 21.0 [0.96] 19.4 22.8	(7) 21.4 [1.30] 19.0 23.2	(1) 21.1		(1) 20.7			(8) 20.8 [1.33] 19.0 22.4	(5) 20.7 [0.55] 19.8 21.2	(1) 20.4	
AHY-U	(6) 22.0 [0.99] 20.7 23.0	(4) 22.5 20.1 24.6	(38) 21.3 [1.42] 18.8 24.4	(26) 20.4 [1.30] 18.5 22.8	(3) 21.1 20.7 21.4	(2) 20.3 19.5 21.1	(2) 20.0 19.7 20.4		(1) 17.2	(11) 21.2 [0.74] 20.2 22.4	(11) 21.6 [0.70] 20.2 22.7	(1) 21.1	
SY-F	(1) 19.8		(1) 21.3	(2) 21.8 21.2 22.3					(1) 20.6				
SY-U	(1) 21.8		(6) 21.7 [0.52] 20.8 22.2	(2) 21.2 20.0 22.4							(3) 21.5 20.1 22.2	(1) 23.0	
ASY-F	(2) 21.1 20.2 21.9	(1) 21.9	(3) 21.8 20.6 22.7	(2) 20.2 19.3 21.0						(3) 21.0 20.4 22.2	(4) 21.5 20.3 22.6		
ASY-U	(1) 20.1		(9) 21.7 [2.06] 19.2 26.7	(5) 21.3 [0.50] 20.5 21.8						(1) 21.3	(4) 22.6 20.7 23.9		
TY-U			(1) 21.7										
ATY-F			(1) 20.5					(1) 19.6	(1) 20.4	(1) 20.6			
ATY-U			(3) 21.0 20.3 22.2	(3) 21.1 20.0 22.1		(1) 21.3							
U-F										(2) 21.3 20.1 22.4	(8) 20.6 [0.92] 19.2 22.0	(1) 21.7	
U-U									(5) 21.0 [0.92] 19.8 22.3	(11) 21.6 [0.87] 19.7 22.6	(15) 21.4 [0.72] 20.0 22.8	(6) 22.2 [0.65] 21.6 23.3	
Red-breasted Nuthatch						<i>Sitta canadensis</i>						n = 7	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-M										(1) 12.1			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U									(2) 10.5 10.1 10.8			
AHY-F										(2) 10.6 10.4 10.8	(2) 11.2 10.7 11.6	
Brown Creeper					<i>Certhia familiaris</i>							n = 152
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U						(1) 7.5		(3) 7.6 7.1 8.4	(2) 8.6 8.2 9.0	(19) 8.2 [0.43] 9.1	(15) 7.9 [0.65] 7.0 8.9	
AHY-F					(1) 8.0				(1) 8.0			
AHY-U			(19) 8.3 [0.46] 7.4 9.1	(26) 8.5 [0.66] 7.2 9.7						(19) 8.3 [0.56] 7.2 9.3	(6) 8.6 [0.66] 7.4 9.3	
SY-U			(1) 7.9	(1) 8.1								
ASY-U			(1) 8.2									
ATY-U											(1) 8.7	
U-U									(3) 8.2 8.1 8.4	(25) 8.3 [0.61] 7.4 9.9	(8) 8.3 [0.51] 7.7 9.3	
House Wren					<i>Troglodytes aedon</i>							n = 1055
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U						(2) 10.4 9.7 11.0	(76) 10.3 [0.48] 8.5 11.4	(178) 10.7 [0.75] 8.0 13.3	(345) 11.1 [0.84] 9.2 14.5	(107) 11.4 [0.74] 9.6 13.2	(1) 12.5	
AHY-F					(6) 10.5 [0.58] 9.9 11.5	(2) 12.2 11.1 13.2	(5) 11.5 [0.64] 10.9 12.5	(6) 11.4 [0.69] 10.7 12.3				
AHY-M					(5) 10.9 [0.60] 10.4 11.9	(1) 10.9	(2) 10.7 10.5 10.8		(1) 10.8			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-U				(24) 10.7 [0.68] 9.7 12.2	(87) 10.6 [0.83] 8.9 14.2	(2) 11.1 11.0 11.2	(13) 11.0 [0.26] 10.5 11.5	(30) 11.2 [0.79] 9.9 12.6	(29) 11.3 [0.78] 9.7 13.8	(13) 11.2 [0.95] 9.7 13.1		
SY-U					(3) 10.6 10.1 11.2		(1) 9.7					
ASY-F					(1) 13.2	(3) 11.8 11.2 12.1						
ASY-M					(1) 10.8							
ASY-U				(3) 10.8 10.2 11.5	(4) 10.6 9.5 11.4							
ATY-F					(1) 11.7	(1) 10.2		(1) 10.9				
ATY-U				(1) 11.8	(2) 11.2 11.0 11.4							
U-M							(1) 11.0					
U-U							(3) 10.6 10.2 11.0	(22) 11.0 [0.67] 9.9 12.5	(64) 11.1 [0.86] 9.4 13.0	(8) 11.1 [1.05] 10.1 12.9		
Winter Wren	<i>Troglodytes troglodytes</i>											n = 171
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U									(14) 8.6 [0.92] 7.2 10.1	(85) 8.9 [0.84] 7.1 10.7	(18) 9.1 [0.70] 8.1 10.3	
AHY-U			(1) 9.3	(8) 8.7 [0.52] 7.7 9.5	(1) 9.3				(2) 9.2 8.6 9.8	(28) 9.0 [0.78] 7.5 10.1	(1) 8.3	
U-U										(9) 8.7 [0.84] 7.7 10.1	(4) 9.0 7.8 10.5	
Bewick's Wren	<i>Thryomanes bewickii</i>											n = 3
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-U			(1) 9.2	(1) 11.3					(1) 11.3			

Carolina Wren		<i>Thryothorus ludovicianus</i>										n = 43	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U							(8) 18.7 [1.08] 17.3 20.3	(13) 18.6 [1.02] 16.6 20.2	(5) 17.6 [1.46] 15.6 19.2	(3) 19.7 17.7 21.6	(1) 20.3		
AHY-U			(1) 17.5	(3) 19.6 18.2 22.3	(3) 19.2 15.9 21.0	(1) 16.8	(1) 22.1		(1) 16.8				
SY-U			(3) 19.3 19.1 19.6										
Long-billed Marsh Wren		<i>Cistothorus palustris</i>										n = 35	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U									(10) 11.9 [1.25] 9.9 13.7	(15) 11.2 [1.15] 9.5 13.6			
AHY-U					(3) 12.7 11.5 13.5				(4) 11.3 10.1 12.1				
U-U									(2) 9.8 9.5 10.1	(1) 9.4			
Short-billed Marsh Wren		<i>Cistothorus platensis</i>										n = 3	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U									(2) 9.2 8.9 9.5	(1) 8.4			
Mockingbird		<i>Mimus polyglottos</i>										n = 2	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
AHY-U				(2) 49.8 47.7 52.0									
Gray Catbird		<i>Dumetella carolinensis</i>										n = 3530	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-F							(2) 36.3 35.0 37.5						
HY-M								(1) 39.0					

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U						(2) 31.4 30.7 32.0	(154) 35.4 [1.96] 29.3 41.5	(333) 36.4 [2.16] 30.0 43.4	(1028) 38.6 [2.85] 31.5 48.3	(271) 41.2 [3.40] 32.8 52.0	(3) 37.8 36.8 39.6	
AHY-F					(14) 35.0 [2.55] 30.9 40.9	(19) 36.9 [2.40] 33.4 40.7	(13) 37.8 [2.74] 33.9 42.2	(19) 36.3 [2.45] 33.3 41.7	(6) 39.6 [2.49] 35.4 42.8	(3) 38.5 32.2 46.0		
AHY-M					(12) 35.7 [4.40] 30.0 48.4	(17) 35.4 [1.14] 33.2 37.2	(5) 35.9 [0.80] 35.0 37.1	(3) 37.1 35.5 39.8	(1) 40.1			
AHY-U			(11) 34.5 [2.37] 32.1 40.7	(711) 34.8 [2.54] 26.7 45.2	(72) 34.7 [2.28] 26.6 40.6	(49) 36.2 [1.87] 32.1 40.2	(44) 37.6 [2.68] 32.1 43.7	(157) 40.0 [3.04] 30.5 47.7	(59) 43.5 [4.37] 34.3 56.5			
SY-F							(2) 35.3 30.3 40.3	(3) 33.6 31.2 35.7		(1) 41.7		
SY-M					(3) 32.1 30.1 34.5	(1) 34.6		(2) 35.5 34.2 36.8				
SY-U					(14) 34.4 [2.13] 31.3 39.7		(2) 37.3 33.5 41.1	(3) 39.1 38.4 39.6	(6) 41.3 [3.37] 37.1 45.5	(1) 45.5		
ASY-F					(1) 32.5	(1) 43.5	(2) 37.3 34.0 40.6	(1) 34.3	(1) 37.3			
ASY-M					(5) 34.7 [1.10] 33.5 36.1	(2) 35.0 34.3 35.6	(3) 34.5 33.1 36.1	(1) 42.4				
ASY-U					(18) 35.4 [1.60] 33.1 38.1	(1) 38.2		(3) 39.1 34.0 41.8	(2) 39.7 38.2 41.2	(1) 48.1		
TY-F					(2) 36.2 33.9 38.5			(1) 32.1		(1) 38.2		
TY-M					(3) 31.7 31.0 32.1			(1) 35.9	(1) 39.7			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
TY-U					(1) 35.9	(2) 33.3	(1) 35.4	(2) 39.8	(3) 39.0			
						31.1		37.5	38.7			
						35.5		42.0	39.6			
ATY-F					(2) 35.3							
					34.4							
					36.2							
ATY-M					(8) 34.3	(1) 38.3						
					[1.18]							
					33.4							
					37.0							
ATY-U					(10) 36.0	(2) 33.4		(3) 37.3	(7) 39.6			
					[1.53]	33.3		35.3	[1.61]			
					33.5	33.5		41.1	36.5			
					38.1				41.1			
U-M								(1) 38.7				
U-U								(7) 37.7	(320) 39.3	(62) 40.7		
								[1.74]	[2.91]	[3.14]		
								35.9	32.3	31.5		
								39.7	47.9	49.0		

## Brown Thrasher

*Toxostoma rufum*

n = 273

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U							(10) 66.4	(17) 68.9	(47) 69.8	(22) 72.5		
							[4.25]	[5.17]	[4.01]	[6.75]		
							58.2	60.0	62.0	55.1		
							74.1	78.6	80.6	92.2		
AHY-F				(2) 68.4	(9) 67.8	(2) 67.7	(2) 66.0	(1) 71.4				
				67.1	[2.97]	67.2	66.0					
				69.7	62.1	68.2	66.0					
					71.6							
AHY-M					(2) 72.8	(2) 67.8						
					62.5	66.2						
					83.0	69.3						
AHY-U				(61) 66.6	(40) 67.1	(2) 66.7		(3) 66.3	(15) 75.6	(2) 63.5		
				[5.39]	[5.82]	65.9		61.0	[6.26]	58.1		
				57.6	58.5	67.4		70.1	66.3	68.9		
				79.2	79.2				89.0			
ASY-U					(1) 66.3							
U-U									(22) 73.5	(11) 71.2		
									[5.01]	[4.04]		
									62.3	65.8		
									83.4	78.5		

American Robin		<i>Turdus migratorius</i>										
		n = 745										
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(1) 82.0	(1) 82.8	(12) 78.8 [6.16] 66.7 66.7 88.8	(2) 70.7 66.7 74.6	
HY-M									(1) 74.0	(16) 79.8 [5.86] 70.5 94.5	(3) 75.6 72.1 81.6 94.5	
HY-U					(3) 75.8 68.3 85.4	(9) 76.1 [3.87] 67.3 81.4	(61) 74.9 [4.97] 54.2 84.2	(51) 75.7 [3.55] 68.8 82.0	(7) 79.3 [5.94] 69.2 86.1	(41) 77.3 [4.66] 66.2 87.7	(19) 82.7 [5.06] 74.4 90.5	
AHY-F			(26) 77.8 [5.55] 70.8 94.4	(85) 77.2 [7.06] 63.5 102.6	(37) 79.8 [5.44] 69.5 88.5	(8) 78.8 [4.63] 70.4 86.1	(7) 76.1 [3.48] 70.9 80.4	(2) 81.5 80.3 82.7				
AHY-M			(37) 77.2 [5.59] 70.6 94.3	(76) 77.1 [6.34] 66.0 94.4	(57) 75.6 [5.55] 66.6 93.9	(9) 76.6 [4.94] 67.3 82.5		(1) 71.6		(4) 81.9 79.5 84.6		
AHY-U	(1) 81.0		(16) 76.6 [4.40] 68.1 85.3	(15) 77.3 [7.52] 66.4 94.0	(5) 76.4 [6.97] 69.6 86.4							
SY-F					(1) 88.9							
SY-U				(3) 75.4 71.0 78.4	(1) 68.6							
ASY-F			(1) 77.1	(3) 80.8 78.3 85.0	(1) 79.5	(1) 85.9						
ASY-M			(4) 75.6 71.3 80.1	(7) 70.4 [4.52] 64.2 78.1	(4) 77.1 75.0 78.7							
TY-U					(1) 77.4							
ATY-F				(2) 75.2 71.7 78.7						(1) 70.2		
ATY-M			(1) 68.8	(6) 73.0 [4.81] 65.1 79.8	(3) 76.7 70.9 84.1	(1) 74.5				(1) 76.0		



Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U-F										(7) 81.8 [5.16] 75.7 90.0		
U-M										(4) 82.2 79.7 83.7	(4) 85.5 77.4 93.2	
U-U									(8) 79.8 [3.93] 73.5 85.3	(51) 79.1 [5.32] 65.6 94.4	(16) 82.3 [7.90] 65.6 97.5	

## Wood Thrush

*Hylocichla mustelina*

n = 478

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U							(17) 47.8 [3.67] 39.3 52.6	(28) 50.4 [2.77] 42.8 54.2	(116) 50.6 [3.03] 40.1 58.4	(9) 52.7 [4.83] 44.0 60.6		
AHY-F					(8) 49.1 [1.38] 46.6 50.7	(6) 53.3 [2.55] 51.1 57.7	(7) 48.6 [3.08] 42.8 53.1	(1) 51.4				
AHY-M				(1) 45.4 [1.50] 42.1 47.4	(14) 45.4 [3.41] 39.2 52.2	(7) 46.0 [2.06] 42.3 48.5	(5) 48.0 [0.72] 47.2 49.0	(1) 50.1	(1) 45.6			
AHY-U				(5) 46.6 [4.58] 40.0 52.2	(123) 46.9 [3.41] 39.2 56.4	(9) 48.7 [3.06] 46.2 55.5	(7) 48.7 [1.78] 46.8 52.2	(4) 49.3 45.0 53.3	(7) 49.6 [2.56] 46.9 54.2	(1) 54.2		
SY-F					(5) 50.3 [3.13] 45.0 53.3	(3) 49.7 49.3 50.3	(1) 46.2					
SY-M					(6) 48.1 [3.50] 43.6 51.3	(2) 47.7 46.7 48.7	(1) 48.6					
SY-U				(5) 45.9 [2.98] 42.5 50.7	(34) 46.6 [2.90] 40.5 55.1	(2) 47.4 45.6 49.1	(2) 45.4 43.1 47.7					
ASY-F					(1) 46.8							

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
ASY-M				(1) 45.1	(7) 44.2	(1) 47.0	(1) 48.3						
					[1.93] 41.3 46.5								
ASY-U				(1) 45.1	(1) 44.1								
TY-U				(2) 47.8 47.0 48.5	(3) 45.7 45.5 46.0								
ATY-F					(1) 44.7	(1) 50.4							
ATY-M				(1) 50.6	(3) 47.4 45.6 48.6								
ATY-U					(1) 42.5								
U-M									(1) 49.2				
U-U									(14) 50.0 [2.91] 45.7 55.2				
Hermit Thrush				<i>Catharus guttatus</i>								n = 546	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U									(6) 29.1 [1.91] 26.7 31.6	(440) 30.6 [2.31] 24.6 39.8	(30) 32.3 [2.64] 28.9 39.6		
AHY-U				(3) 28.7 26.6 30.3	(4) 30.4 26.6 33.6				(1) 30.0	(29) 31.4 [2.14] 27.6 37.4	(1) 34.4		
SY-U				(5) 31.0 [2.12] 27.9 33.4	(5) 31.5 [1.25] 30.0 33.2								
U-U										(22) 30.7 [1.67] 27.5 34.0			
Swainson's Thrush				<i>Catharus ustulatus</i>								n = 2174	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U							(1) 31.6	(3) 30.5 26.4 33.3	(1036) 30.8 [2.54] 21.7 46.7	(112) 33.0 [3.81] 26.5 48.2			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-F							(1) 31.1	(8) 29.6 [1.39] 28.0 32.1				
AHY-U				(3) 29.6 27.6 31.1	(249) 29.8 [2.68] 21.9 39.3	(4) 32.8 29.6 37.0	(2) 29.7 29.6 29.8	(14) 30.8 [1.70] 27.4 33.5	(119) 32.4 [2.96] 26.2 42.1	(10) 34.4 [3.54] 28.7 39.1		
SY-U				(1) 25.1	(82) 29.7 [2.70] 25.2 39.0							
U-U								(7) 29.2 [0.98] 28.1 30.5	(475) 30.8 [2.82] 24.7 50.7	(47) 35.1 [5.15] 26.5 47.7		
Gray-cheeked Thrush	<i>Catharus minimus</i>											n = 464
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(2) 33.1 31.8 34.4	(159) 32.1 [2.58] 25.0 40.8	(97) 36.5 [5.37] 25.4 52.6		
AHY-U					(22) 33.1 [3.34] 27.0 39.6				(37) 33.6 [3.91] 27.1 45.1	(9) 38.2 [5.98] 30.2 45.0		
SY-U					(2) 34.4 33.2 35.6							
U-U									(115) 31.6 [2.77] 26.4 39.8	(21) 35.3 [5.65] 27.2 50.5		
Veery	<i>Catharus fuscescens</i>											n = 116
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(11) 30.8 [1.63] 28.6 34.1	(33) 33.9 [4.06] 28.7 48.2			
AHY-F							(2) 30.7 30.3 31.0	(1) 29.1				

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-U					(38) 31.0 [2.68] 26.3 35.8		(4) 28.8 26.2 31.7		(6) 34.8 [5.84] 29.2 41.7			
SY-U					(15) 31.0 [2.65] 27.9 37.8							
U-U									(6) 31.8 [3.14] 27.9 36.3			

## Eastern Bluebird

*Sialia sialis*

n = 21

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-M										(1) 29.4		
HY-U											(1) 40.0	
AHY-F			(4) 29.9 26.9 31.6	(1) 29.9	(1) 30.4					(1) 30.2	(1) 30.5	
AHY-M			(4) 29.7 27.5 32.0	(1) 28.9	(2) 29.7 28.4 30.9	(1) 29.3						
AHY-U			(1) 30.1									
U-F											(2) 31.8 30.7 32.8	

## Blue-gray Gnatcatcher

*Poliptila caerulea*

n = 235

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-M								(1) 5.7				
HY-U							(10) 6.0 [0.22] 5.6 6.3	(36) 6.0 [0.26] 5.5 6.6	(4) 6.0 5.9 6.2			
AHY-F				(42) 5.8 [0.41] 4.8 6.8	(27) 6.4 [0.87] 5.4 8.9	(4) 6.5 6.1 7.0	(4) 5.9 5.2 6.4	(15) 6.0 [0.40] 5.3 6.7	(1) 5.9			
AHY-M				(36) 6.0 [0.37] 5.2 6.8	(19) 6.1 [0.28] 5.7 6.7	(3) 6.3 5.9 6.6	(2) 6.3 6.1 6.4	(3) 6.0 5.3 7.0				

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-U				(2) 5.6 5.5 5.6	(1) 6.3	(1) 6.2	(1) 6.2	(6) 5.8 [0.67] 5.0 6.7				
SY-M						(1) 5.8						
ASY-M				(1) 6.0			(1) 6.2	(1) 6.2				
TY-M					(2) 6.0 5.9 6.1							
ATY-M				(1) 6.0	(1) 5.8			(1) 5.9				
U-U							(1) 6.1	(4) 6.2 5.0 6.7	(3) 6.2 6.1 6.4			

## Golden-crowned Kinglet

*Regulus satrapa*

n = 643

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F										(55) 6.3 [0.58] 5.2 7.8	(51) 6.2 [0.44] 5.1 7.3	
HY-M									(1) 5.8	(63) 6.4 [0.50] 5.6 7.6	(65) 6.4 [0.43] 5.4 7.4	
AHY-F			(4) 5.6 5.5 5.8	(47) 5.8 [0.40] 5.1 7.1						(8) 6.4 [0.31] 6.1 6.9		
AHY-M	(4) 5.9 5.9 6.0		(21) 6.0 [0.40] 5.2 7.2	(104) 6.1 [0.44] 4.9 7.2						(8) 6.5 [0.54] 5.5 7.4	(5) 6.2 [0.46] 5.5 6.8	
SY-M			(1) 6.1									
U-F										(26) 6.2 [0.37] 5.4 6.7	(59) 6.3 [0.56] 4.5 7.8	(3) 5.8 5.9
U-M										(35) 6.5 [0.53] 5.6 7.6	(83) 6.4 [0.56] 5.3 7.7	

Ruby-crowned Kinglet												
<i>Regulus calendula</i>												
n = 3184												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F									(108) 6.3 [0.63]	(290) 6.3 [0.56]	(11) 6.8 [0.38]	
									4.9 8.5	5.2 8.3	6.2 7.5	
HY-M									(9) 6.7 [0.74]	(202) 6.8 [0.62]	(27) 7.1 [0.67]	
									5.6 8.1	5.5 8.6	5.9 9.5	
HY-U										(6) 6.2 [0.45]	(1) 6.7	
										5.6 6.8		
AHY-F				(118) 6.1 [0.37]	(338) 6.3 [0.47]				(33) 6.3 [0.47]			
				5.3 7.0	5.2 7.8				5.3 7.3			
AHY-M		(3) 6.6 6.5 6.7	(518) 6.8 [0.53] 5.4 8.9	(51) 7.1 [0.50] 5.9 8.6					(7) 6.7 [0.43] 6.0 7.4	(1) 6.0		
AHY-U			(3) 6.3 6.2 6.4	(2) 6.3 5.5 7.1								
U-F									(39) 6.4 [0.72]	(460) 6.5 [0.60]	(106) 6.6 [0.54]	
									5.3 8.0	5.1 8.9	5.1 8.3	
U-M									(5) 6.8 [0.63]	(610) 6.9 [0.61]	(229) 7.1 [0.54]	
									6.2 7.7	5.0 9.7	5.8 8.9	
U-U										(7) 6.8 [0.59]		
										6.1 7.8		
Cedar Waxwing												
<i>Bombycilla cedrorum</i>												
n = 3318												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(1) 31.5				
HY-U						(7) 29.8 [1.58]	(506) 31.6 [2.26]	(675) 32.6 [2.14]	(248) 33.6 [2.12]	(89) 33.6 [2.48]	(3) 33.6 28.5	(3) 33.6 39.7
						27.1 31.3	20.0 38.3	21.3 38.5	26.7 44.7	28.5 39.7		



Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ASY-M					(1) 82.5							
U-U	(1) 82.2										(1) 77.0	
<i>Vireo griseus</i>												
											n = 88	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(5) 11.3 [0.42] 10.7 11.8	(4) 11.8 10.7 12.8			
AHY-F					(1) 11.9	(1) 12.7						
AHY-U				(9) 10.5 [0.52] 9.6 11.2	(49) 11.2 [0.71] 10.0 13.1	(5) 11.7 [0.55] 10.9 12.3	(4) 11.1 10.6 12.3	(3) 12.0 11.5 12.4	(3) 11.8 10.3 13.0		(1) 12.5	
ASY-F				(1) 11.4								
ASY-M					(1) 12.4	(1) 12.5						
<i>Vireo flavifrons</i>												
											n = 10	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U									(3) 18.3 16.7 19.4			
AHY-F							(1) 19.2					
AHY-U					(3) 15.7 15.0 17.0		(1) 17.2	(1) 16.1				
U-U									(1) 18.8			
<i>Vireo solitarius</i>												
											n = 114	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U									(42) 16.9 [1.30] 14.3 20.5	(49) 16.5 [0.93] 14.0 19.5		
AHY-U				(1) 15.1	(3) 16.7 15.6 18.4				(6) 16.5 [1.14] 14.7 17.7	(8) 16.9 [0.64] 16.0 18.2		
U-U										(4) 16.0 14.5 18.0	(1) 16.0	



Red-eyed Vireo		<i>Vireo olivaceus</i>										n = 2055
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F							(1) 16.7					
HY-M								(4) 16.6 16.0 17.3	(1) 15.8			
HY-U							(15) 17.1 [1.01] 15.5 18.6	(211) 16.7 [1.39] 11.5 23.1	(401) 17.3 [1.63] 12.2 25.7	(17) 18.9 [2.11] 17.0 23.7		
AHY-F					(16) 15.7 [0.92] 14.6 17.7	(24) 17.5 [1.42] 15.6 21.5	(64) 16.4 [0.92] 14.2 18.4	(51) 16.7 [1.14] 13.5 20.7	(7) 17.3 [0.76] 15.7 17.8			
AHY-M					(15) 16.5 [1.46] 14.2 19.6	(25) 16.7 [0.80] 15.5 18.3	(15) 16.7 [0.86] 14.6 18.2	(18) 16.9 [1.32] 15.1 20.0	(2) 16.8 16.1 17.5			
AHY-U					(550) 16.5 [1.32] 12.6 22.7	(95) 16.6 [1.02] 13.7 18.7	(67) 16.7 [0.89] 14.0 18.6	(193) 17.2 [1.14] 15.0 20.8	(92) 17.8 [1.64] 15.3 25.1	(1) 20.4		
SY-M					(1) 15.7	(1) 16.3	(1) 16.2					
SY-U					(6) 15.8 [0.95] 14.3 17.1		(1) 15.6					
ASY-F					(7) 16.2 [0.60] 15.4 17.3	(1) 17.2	(3) 15.5 16.1	(6) 16.8 [0.92] 15.4 18.3				
ASY-M					(2) 18.9 17.9 19.9	(1) 17.3	(1) 17.4	(3) 16.6 15.8 17.7				
ASY-U					(26) 15.9 [0.71] 14.9 18.2	(3) 17.2 16.6 18.1	(3) 16.6 16.3 16.9	(11) 17.0 [0.70] 15.9 18.1	(1) 17.3			
TY-F							(1) 17.1					
ATY-F					(5) 17.0 [2.21] 15.5 20.9	(1) 16.2	(4) 16.0 13.9 17.6	(12) 16.4 [1.08] 13.4 18.1				

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ATY-M					(18) 16.2 [0.80] 14.5 18.4	(2) 15.9 15.4 16.3		(7) 16.8 [0.38] 16.2 17.2				
ATY-U					(18) 16.3 [1.00] 15.1 18.6	(5) 16.4 [0.78] 15.4 17.6		(14) 17.4 [0.87] 16.2 19.5	(2) 15.3 12.0 18.6			
U-U								(3) 16.6 16.4 16.8				

## Philadelphia Vireo

*Vireo philadelphicus*

n = 246

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U									(117) 12.0 [1.02] 9.4 15.3	(13) 12.6 [1.42] 11.2 15.4		
AHY-U					(79) 12.2 [1.14] 10.3 16.1				(16) 12.2 [0.90] 10.7 14.3	(6) 12.7 [0.94] 11.0 13.7		
U-U								(15) 11.8 [1.00] 10.4 13.7				

## Warbling Vireo

*Vireo gilvus*

n = 20

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U									(5) 14.8 [0.99] 13.6 16.1			
AHY-U					(14) 13.6 [1.19] 11.4 17.0							
U-U								(1) 14.1				

## Black-and-white Warbler

*Mniotilta varia*

n = 180

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F							(2) 9.5 9.4 9.6	(13) 10.1 [0.55] 9.3 11.1	(19) 10.6 [1.23] 8.3 14.0			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-M							(2) 10.1 9.9 10.2	(17) 10.1 [0.77] 7.9 11.1	(26) 10.5 [0.83] 8.7 11.8				
HY-U							(1) 11.4	(5) 10.6 [0.75] 9.8 11.5	(2) 9.3 8.4 10.2				
AHY-F				(1) 9.9	(14) 10.8 [0.93] 9.0 12.7	(3) 10.3 9.7 11.2	(10) 10.9 [0.56] 10.2 12.2	(12) 10.3 [0.70] 9.3 11.1	(3) 10.3 10.0 10.9				
AHY-M				(5) 10.7 [0.88]	(9) 10.4 [0.95] 9.1 12.1		(2) 11.6 11.2 12.0	(2) 11.9 11.6 12.1	(5) 11.9 [2.80]				
SY-F					(1) 10.2								
SY-M					(1) 11.2								
U-F							(1) 10.3		(1) 9.3				
U-U								(18) 10.4 [0.69] 9.2 11.7	(5) 10.4 [0.68] 9.5 11.3				
Prothonotary Warbler				<i>Protonotaria citrea</i>								n = 1	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
AHY-M				(1) 12.9									
Worm-eating Warbler				<i>Helmintheros vermivorus</i>								n = 11	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U									(2) 12.6 12.2 12.9				
AHY-U				(2) 13.0 12.8 13.1	(6) 12.8 [0.67] 11.6 13.4								
U-U								(1) 12.2					

## Golden-winged Warbler

*Vermivora chrysoptera*

n = 290

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F							(2) 8.7 7.1 10.3	(11) 8.3 [0.75] 7.0 9.8	(4) 8.8 8.1 9.4			
HY-M							(4) 9.8 9.6 10.4	(10) 8.8 [0.54] 8.0 9.9	(1) 9.0			
HY-U							(2) 8.2 7.9 8.5	(1) 7.7				
AHY-F					(64) 8.8 [0.88] 7.5 11.8	(7) 9.3 [0.98] 8.7 11.5	(2) 10.0 9.6 10.4	(4) 8.7 7.8 9.5	(1) 8.4			
AHY-M				(2) 9.4 8.9 9.8	(84) 8.7 [0.62] 7.2 11.2	(25) 8.8 [0.45] 7.7 9.4	(3) 9.2 8.8 9.7	(8) 8.6 [0.59] 8.0 9.5	(4) 8.6 7.6 9.8			
SY-F					(1) 8.1	(3) 9.8 8.5 11.3						
ASY-F						(1) 10.8						
ASY-M				(2) 8.8 8.5 9.0	(17) 8.8 [0.46] 7.9 10.0	(1) 8.7		(1) 9.3				
TY-F								(1) 8.9				
ATY-F					(3) 8.2 7.7 8.9		(2) 8.8 8.6 9.0		(1) 9.8			
ATY-M					(13) 8.6 [0.43] 7.7 9.4	(1) 9.1	(2) 9.4 9.1 9.6	(1) 8.9				
U-U								(1) 8.4				

## "Brewster's" Warbler (hybrid)

*Vermivora chrysoptera* × *V. pinus*

n = 6

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(1) 7.7				

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-U					(4) 8.6 7.8 9.2				(1) 8.8			
"Lawrence's" Warbler (hybrid)				<i>Vermivora chrysoptera</i> × <i>V. pinus</i>								n = 4
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-M								(1) 7.8				
AHY-U				(1) 9.1	(1) 9.5							
TY-M					(1) 8.1							
Blue-winged Warbler				<i>Vermivora pinus</i>								n = 36
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-M								(1) 7.4	(4) 9.2 8.1 9.8			
HY-U								(1) 8.1	(6) 8.2 [0.99] 7.3 9.9			
AHY-F					(5) 8.3 [0.41] 8.0 9.0	(1) 8.0			(2) 8.8 8.5 9.0			
AHY-M					(8) 8.2 [0.84] 7.2 10.0	(2) 8.0 7.9 8.0			(5) 9.3 [0.94] 8.7 11.0			
U-U								(1) 7.8				
Tennessee Warbler				<i>Vermivora peregrina</i>								n = 2523
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F									(9) 8.7 [0.65] 8.1 9.6			
HY-M									(8) 9.4 [0.48] 8.6 10.1			
HY-U								(36) 8.8 [0.62] 7.7 10.3	(1588) 9.0 [0.71] 7.3 15.3	(117) 9.7 [1.10] 7.6 14.8		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
AHY-F					(164) 9.8 [1.09] 7.8 13.4				(4) 9.1 8.2 9.9				
AHY-M					(209) 10.2 [1.40] 7.3 18.4			(1) 9.9	(4) 9.2 8.7 9.8				
AHY-U					(100) 10.2 [1.33] 6.9 13.9		(1) 9.0	(9) 9.4 [0.76] 8.5 11.0	(92) 9.6 [1.02] 8.0 13.6	(3) 10.8 9.3 12.0			
U-U								(2) 8.4 7.9 8.8	(160) 9.1 [0.63] 7.7 10.9	(16) 10.7 [1.19] 8.4 12.6			
Orange-crowned Warbler					<i>Vermivora celata</i>							n = 108	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U									(4) 8.4 7.9 8.7	(63) 9.6 [0.81] 7.9 11.7	(2) 10.9 9.7 12.1		
AHY-F					(1) 8.8								
AHY-M										(1) 10.5			
AHY-U				(1) 9.8	(12) 9.4 [0.47] 8.6 9.9					(20) 9.2 [0.70] 8.1 10.9	(1) 9.4		
U-U										(3) 9.4 9.0 10.0			
Nashville Warbler					<i>Vermivora ruficapilla</i>							n = 920	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-F								(2) 8.0 7.9 8.0	(136) 8.5 [0.86] 7.1 11.7	(43) 8.8 [0.76] 7.3 10.4			
HY-M								(1) 7.1	(87) 8.7 [0.79] 7.5 10.6	(22) 9.3 [0.95] 7.7 12.2	(4) 8.2 7.2 9.0		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(2) 8.4 8.2 8.5	(35) 8.6 [0.84] 7.3 10.6	(6) 9.1 [0.96] 7.5 10.1		
AHY-F				(4) 7.8 6.8 8.3	(158) 8.5 [0.72] 6.7 11.1			(1) 9.5	(57) 8.5 [0.72] 7.0 10.2	(37) 8.9 [0.72] 7.5 10.2		
AHY-M				(11) 8.2 [0.74] 7.2 9.6	(135) 9.0 [0.98] 7.2 13.9				(29) 9.0 [1.01] 7.4 12.2	(20) 8.9 [0.89] 7.0 11.2		
AHY-U				(1) 8.7	(60) 8.6 [0.71] 7.1 10.2				(12) 9.0 [0.97] 7.9 10.5	(1) 8.0		
U-M									(1) 8.3	(2) 8.4 7.9 8.8		
U-U								(5) 7.9 [0.85] 7.4 9.4	(39) 8.6 [0.70] 7.4 9.9	(9) 9.1 [0.97] 7.3 10.2		

## Northern Parula

*Parula americana*

n = 23

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-M									(3) 8.3 7.2 10.0			
HY-U							(1) 7.3	(1) 7.7	(3) 7.4 7.0 7.7			
AHY-F					(3) 7.7 7.1 8.5	(1) 7.4				(1) 7.2		
AHY-M					(8) 8.1 [0.87] 7.0 9.6			(1) 8.4				
U-U									(1) 9.3			

Yellow Warbler		<i>Dendroica petechia</i>											n = 376
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-F								(1) 12.6					
HY-U							(15) 9.3 [0.80] 8.0 10.7	(11) 10.9 [1.60] 9.2 13.8	(10) 10.1 [1.02] 8.4 11.5	(1) 10.0			
AHY-F				(3) 9.5 9.1 10.0	(110) 9.1 [0.74] 7.4 12.0	(1) 9.2	(5) 9.4 [0.63] 8.8 10.4	(4) 10.5 10.0 11.2	(1) 16.0				
AHY-M				(7) 10.2 [1.09] 9.3 12.5	(131) 9.8 [0.79] 7.9 12.4	(15) 9.3 [0.60] 8.1 10.2	(6) 10.0 [0.83] 9.0 10.9	(2) 11.8 10.8 12.8	(3) 10.6 10.1 11.0				
AHY-U								(2) 11.4 10.9 11.8					
ASY-F					(3) 8.9 8.7 9.0								
ASY-M				(1) 10.3	(11) 9.5 [0.52] 8.6 10.3	(1) 9.8							
ATY-F				(1) 9.8	(9) 9.4 [0.75] 8.5 10.7	(1) 9.2		(1) 11.0					
ATY-M				(1) 10.4	(8) 9.9 [0.46] 8.6 12.0								
U-U							(1) 8.9	(8) 11.0 [1.55] 8.7 13.5	(2) 9.2 9.2				
Magnolia Warbler		<i>Dendroica magnolia</i>											n = 2561
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U								(85) 8.1 [0.54] 6.0 9.7	(1214) 8.2 [0.70] 6.6 12.9	(50) 8.8 [1.06] 6.9 11.5			



Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
AHY-F				(1) 7.6	(238) 8.5 [0.81] 6.6 12.6	(1) 8.3		(2) 8.0 7.5 8.4	(165) 8.4 [0.76] 6.7 12.4	(23) 9.5 [1.30] 7.7 11.8			
AHY-M					(390) 8.9 [0.81] 7.0 12.9	(2) 9.0 8.6 9.4		(2) 9.0 7.9 10.1	(97) 8.6 [0.62] 7.2 9.9	(16) 9.6 [1.06] 8.3 12.7			
AHY-U					(30) 8.2 [0.82] 6.6 10.0			(3) 7.9 7.5 8.2	(42) 8.8 [0.83] 7.1 11.2	(1) 9.4			
SY-M					(11) 8.5 [0.91] 7.4 10.5								
SY-U									(1) 8.3				
ASY-M					(12) 8.9 [0.91] 7.7 10.6								
ATY-M									(1) 9.2				
U-U								(14) 8.1 [0.47] 7.3 8.8	(155) 8.3 [0.64] 6.9 10.9	(5) 9.1 [0.87] 8.3 10.5			
Cape May Warbler				<i>Dendroica tigrina</i>								n = 798	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-F								(2) 9.3 8.9 9.7	(280) 10.0 [0.98] 8.2 16.5	(13) 10.9 [2.01] 8.9 15.1			
HY-M								(1) 10.4	(280) 10.1 [0.89] 8.5 16.1	(17) 11.3 [2.29] 8.8 17.3			
HY-U								(1) 9.7	(51) 10.0 [0.92] 8.1 13.1	(7) 11.7 [2.10] 8.9 13.9			
AHY-F					(10) 11.1 [1.34] 9.7 14.0			(1) 10.5	(27) 10.4 [0.85] 9.3 13.4	(2) 12.9 10.5 15.3			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-M					(11) 11.2 [1.06] 9.9 13.1			(6) 11.0 [0.91] 10.0 12.4	(42) 11.2 [1.79] 9.3 17.3	(2) 13.2 11.1 15.2		
AHY-U								(1) 9.4	(33) 10.6 [1.53] 8.8 15.3	(4) 11.0 8.3 9.6		
U-F									(1) 9.6			
U-U									(5) 10.5 [0.73] 9.5 11.4	(1) 13.5		
Black-throated Blue Warbler												
<i>Dendroica caerulescens</i>												
n = 129												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(3) 8.7 8.5 8.8	(27) 9.2 [0.51] 8.2 10.2	(7) 10.5 [1.39] 8.8 12.7		
HY-M								(1) 10.0	(31) 9.8 [0.67] 8.7 11.8	(3) 10.1 9.5 10.8		
HY-U									(1) 9.3			
AHY-F					(24) 9.6 [0.84] 8.1 11.7			(1) 9.1	(2) 11.0 9.9 12.1			
AHY-M					(9) 9.9 [0.76] 8.8 11.0			(1) 9.4	(4) 9.4 8.7 10.0	(2) 10.3 10.6	(1) 9.9	
U-F									(10) 9.0 [0.43] 8.5 10.0			
U-M									(1) 10.5	(1) 10.2		
Yellow-rumped Warbler (Myrtle Warbler)												
<i>Dendroica coronata</i>												
n = 2095												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F									(15) 11.0 [0.80] 9.7 12.4	(323) 12.0 [1.07] 9.6 16.5	(7) 12.4 [0.92] 11.4 13.6	

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-M									(3) 11.6 9.7 12.8	(193) 12.8 [1.17] 10.6 19.7	(20) 13.5 [1.12] 11.6 15.7	
HY-U									(28) 11.4 [0.69] 10.6 13.6	(783) 12.5 [1.25] 9.5 16.6	(24) 13.5 [1.24] 10.9 15.6	
AHY-F				(5) 12.3 [1.72] 10.3 14.7	(60) 11.8 [0.95] 10.1 14.5				(5) 11.5 [0.43] 10.9 12.0	(213) 12.3 [1.07] 9.9 15.3	(5) 12.9 [1.41] 11.5 14.5	
AHY-M				(18) 13.4 [1.30] 11.8 16.6	(45) 12.4 [0.90] 10.8 15.1					(152) 13.1 [1.20] 10.8 16.7	(1) 14.3	
AHY-U				(1) 11.0	(9) 12.6 [1.03] 11.0 14.3				(1) 12.1	(29) 13.0 [1.10] 10.8 14.7	(1) 13.4	
SY-M					(5) 11.3 [0.69] 10.6 12.2							
ASY-M					(9) 12.2 [0.99] 10.8 13.5							
U-F										(1) 12.3	(1) 14.5	
U-M											(1) 12.9	
U-U									(6) 11.0 [0.87] 10.3 12.6	(121) 12.0 [1.03] 9.7 15.6	(10) 13.3 [0.95] 11.6 14.8	

## Black-throated Green Warbler

*Dendroica virens*

n = 563

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F									(4) 8.2 7.8 8.9			
HY-M									(18) 9.0 [0.51] 8.0 9.9			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U							(2) 8.7 8.2 9.1	(22) 8.3 [0.44] 7.7 9.5	(357) 8.6 [0.64] 7.1 11.2	(38) 9.0 [0.72] 7.5 11.2		
AHY-F					(5) 8.8 [0.58] 8.1 9.5		(1) 9.3		(10) 8.9 [0.76] 7.7 10.1	(1) 9.9		
AHY-M				(2) 8.9 8.7 9.0	(11) 10.0 [1.66] 8.6 14.4		(1) 8.6	(2) 8.2 7.9 8.5	(25) 9.0 [0.74] 8.0 11.4	(2) 9.8 9.2 10.3		
AHY-U								(2) 8.1 7.9 8.2	(3) 9.0 9.0 9.0			
SY-F							(1) 7.9					
U-F									(1) 9.2			
U-M									(6) 8.4 [0.24] 8.1 8.8	(1) 9.0		
U-U								(5) 8.5 [0.30] 8.1 8.8	(40) 8.5 [0.53] 7.4 9.8	(3) 9.1 8.6 9.0		

## Cerulean Warbler

*Dendroica cerulea*

n = 36

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U							(12) 9.0 [0.73] 8.0 10.2	(4) 8.8 8.2 9.5	(2) 8.7 8.4 9.0			
AHY-F					(1) 9.1		(1) 9.2	(2) 9.0 8.8 9.1				
AHY-M					(2) 9.4 9.1 9.7	(3) 9.5 9.0 10.0	(4) 9.5 9.3	(1) 9.2				
AHY-U								(1) 9.0				
U-U								(3) 8.7 8.1 9.2				

## Blackburnian Warbler

*Dendroica fusca*

n = 90

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(6) 9.1 [0.63] 8.3 9.8	(20) 9.0 [0.65] 8.1 10.5			
HY-M								(4) 9.6 9.2 10.3	(30) 9.7 [0.91] 8.0 12.7			
HY-U								(7) 9.1 [0.55] 8.3 10.0	(7) 9.2 [0.86] 7.7 10.0			
AHY-F					(2) 10.2 10.1 10.2	(1) 9.3			(1) 10.0			
AHY-M					(3) 10.7 10.0 11.4			(1) 9.6	(2) 10.4 9.8 10.9			
AHY-U									(1) 9.4			
U-U								(3) 8.9 8.6 9.3	(2) 9.2 9.2 9.3			

## Chestnut-sided Warbler

*Dendroica pensylvanica*

n = 375

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-M							(1) 9.4	(3) 9.7 9.0 11.0	(26) 9.5 [0.74] 8.0 11.6			
HY-U								(59) 9.1 [0.58] 8.2 10.4	(147) 9.4 [0.73] 7.8 11.6	(2) 9.6 8.6 10.6		
AHY-F					(26) 9.5 [0.72] 7.5 10.9	(2) 9.7 9.0 10.3	(1) 9.4	(2) 9.1 8.7 9.5	(14) 9.3 [0.70] 7.7 10.5	(1) 9.1		
AHY-M					(45) 9.9 [0.95] 8.1 13.1	(1) 10.1	(1) 10.0	(2) 9.9 9.8 10.0	(17) 9.7 [0.59] 8.9 11.2			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-U					(3) 9.6 8.5 10.4			(6) 9.7 [0.87] 8.4 10.7	(4) 10.2 9.0 12.1	(1) 9.2		
U-U								(6) 9.1 [0.53] 8.7 10.1	(5) 10.0 [0.95] 9.0 11.6			

Bay-breasted Warbler												
<i>Dendroica castanea</i>												
n = 279												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-M									(3) 12.3 11.1 13.7			
HY-U								(2) 11.5 11.3 12.0	(223) 11.6 [0.76] 9.7 14.0	(2) 11.9 11.5 12.3		
AHY-F					(6) 11.9 [1.02] 10.7 13.6				(8) 12.0 [0.88] 10.8 13.1			
AHY-M					(11) 13.4 [1.17] 12.0 15.1				(4) 12.0 11.6 12.3	(1) 13.7		
AHY-U									(15) 11.9 [0.86] 10.2 13.2			
U-U									(3) 12.2 10.5 12.8	(1) 14.1		

Blackpoll Warbler												
<i>Dendroica striata</i>												
n = 484												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U									(192) 11.8 [0.86] 9.8 14.5	(83) 13.5 [2.06] 10.4 20.8		
AHY-F					(6) 12.3 [0.80] 11.2 13.6	(2) 14.0 11.5 16.4			(6) 12.3 [2.38] 9.8 16.8			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-M					(22) 13.0 [1.14] 10.8 15.9				(2) 13.3 12.3 14.2			
AHY-U									(53) 12.2 [1.44] 9.7 19.0	(29) 15.5 [2.91] 12.1 21.6		
U-U								(1) 11.6	(70) 12.2 [1.17] 10.7 18.1	(18) 15.1 [2.96] 12.0 20.9		
Pine Warbler	<i>Dendroica pinus</i>											n = 3
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(1) 11.7	(1) 11.1	(1) 14.2		
Kirtland's Warbler	<i>Dendroica kirtlandii</i>											n = 3
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U									(2) 14.5 14.0 14.9	(1) 15.8		
(n.b., all 3 weights are from the same individual)												
Prairie Warbler	<i>Dendroica discolor</i>											n = 83
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(2) 6.7 6.5 6.8	(2) 7.7 7.2 8.2			
HY-M								(1) 7.0	(3) 7.6 6.9 8.2	(1) 8.3		
HY-U							(1) 7.8	(2) 6.8 6.6 7.0				
AHY-F				(2) 6.9 6.8 7.0	(32) 7.0 [0.48] 6.2 8.1	(1) 8.0	(2) 7.1 7.1	(2) 7.2 6.9 7.5	(1) 7.8			
AHY-M				(6) 7.2 [0.50] 6.7 7.9	(17) 7.2 [0.42] 6.2 7.8	(3) 7.2 6.6 8.0		(1) 8.7	(1) 8.7			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
AHY-U				(2) 7.2 7.0 7.4	(1) 6.7								
Palm Warbler											<i>Dendroica palmarum</i>		n = 568
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U									(233) 10.2 [0.81] 7.9 12.2	(156) 10.6 [0.97] 8.3 13.2	(3) 11.5 10.2 13.0		
AHY-M				(2) 10.3 9.8 10.8						(2) 10.9 10.3 11.5			
AHY-U				(6) 10.2 [0.38] 9.6 10.7	(5) 10.2 [0.70] 9.4 11.1				(2) 10.5 10.4 10.6	(30) 10.7 [0.92] 9.3 12.9			
U-U									(91) 10.0 [0.92] 7.0 12.3	(38) 10.5 [0.72] 9.2 11.8			
Ovenbird											<i>Seiurus aurocapillus</i>		n = 449
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-M								(2) 20.0 19.6 20.3					
HY-U							(9) 19.1 [1.40] 17.3 21.5	(48) 18.9 [1.60] 17.0 26.3	(193) 19.4 [1.98] 16.4 28.2	(16) 20.2 [3.12] 17.5 28.3			
AHY-F						(5) 19.6 [1.53] 18.1 21.7							
AHY-M					(3) 18.6 18.1 19.3	(9) 18.8 [0.85] 17.4 20.3	(1) 20.5						
AHY-U				(2) 18.0 17.7 18.2	(34) 18.8 [1.87] 15.6 23.4		(1) 19.4	(10) 18.9 [1.34] 16.5 20.5	(29) 19.0 [1.40] 15.7 22.0	(4) 22.4 20.3 26.2			
SY-M						(1) 18.3							



Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
ASY-U								(2) 19.1 19.0 19.1	(1) 28.8				
U-U							(1) 18.9	(12) 18.6 [1.42] 16.9 21.0	(62) 20.0 [2.21] 14.0 26.5	(4) 20.3 19.4 20.9			
Northern Waterthrush				<i>Seiurus noveboracensis</i>								n = 458	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U								(34) 17.9 [1.63] 15.1 22.0	(109) 18.1 [1.81] 14.3 23.9	(26) 18.9 [2.50] 15.3 23.1			
AHY-U				(16) 16.7 [1.67] 13.8 20.5	(169) 17.6 [1.67] 14.2 24.4			(32) 18.6 [1.31] 16.4 21.6	(26) 18.4 [1.66] 15.4 23.2	(4) 19.0 17.8 20.2			
U-U								(10) 17.9 [0.94] 16.5 19.5	(31) 18.1 [1.90] 13.9 23.3	(1) 16.2			
Louisiana Waterthrush				<i>Seiurus motacilla</i>								n = 103	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-U						(2) 20.9 20.6 21.1	(12) 20.0 [2.03] 14.5 22.1	(9) 20.2 [1.71] 18.1 24.0	(1) 17.2				
AHY-F					(5) 21.5 [2.83] 18.2 26.0	(2) 20.2 20.1 20.2	(2) 20.4 19.4 21.4						
AHY-M					(15) 19.7 [1.31] 17.4 22.1	(1) 22.7							
AHY-U				(7) 19.0 [0.91] 17.3 20.1	(29) 19.6 [1.23] 17.0 22.4		(2) 22.5 21.7 23.2						
ASY-F					(1) 21.3								
ASY-M					(7) 19.3 [0.86] 18.3 20.6								

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ASY-U					(3) 18.5 18.3 18.7			(1) 18.7				
ATY-M				(2) 20.7 20.3 21.1								
U-U							(2) 19.7 19.3 20.1					
Kentucky Warbler					<i>Oporornis formosus</i>					n = 206		
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(3) 13.4 13.3 13.5	(4) 13.4 12.3 14.3			
HY-M							(2) 14.4 13.8 14.9	(14) 14.1 [1.08] 12.3 16.7	(5) 14.1 [0.50] 13.4 14.7			
HY-U							(4) 14.0 12.9 15.2	(15) 14.2 [0.86] 13.0 16.7	(3) 14.0 12.1 15.9			
AHY-F					(19) 13.1 [1.18] 11.4 16.5	(4) 14.0 12.8 15.8	(7) 13.6 [0.92] 12.6 15.3	(8) 15.0 [0.65] 14.1 16.1	(1) 14.7			
AHY-M				(3) 14.2 13.9 14.5	(49) 14.0 [0.67] 12.0 15.5	(14) 14.1 [0.71] 12.9 15.5	(3) 14.8 13.8 16.3	(13) 14.9 [1.36] 13.8 18.3	(2) 18.5 16.3 20.6			
AHY-U					(1) 12.4		(1) 13.8	(2) 14.9 13.3 16.4				
ASY-F					(1) 13.3		(1) 12.7	(1) 13.2	(1) 14.1			
ASY-M				(1) 12.2				(1) 17.9	(3) 14.6 14.3 15.0			
ASY-U								(1) 14.5				
ATY-M					(3) 13.7 13.2 14.2			(1) 15.5	(1) 15.4			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U-M									(2) 14.0 13.4 14.6			
U-U								(11) 13.5 [0.57] 12.7 14.4	(1) 14.8			

Connecticut Warbler												
<i>Oporornis agilis</i>												
n = 217												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(4) 13.8 13.2 14.5	(107) 14.0 [1.32] 11.5 19.7	(12) 14.9 [2.11] 12.3 19.7		
AHY-F					(4) 13.3 10.4 19.1			(1) 12.7	(17) 14.4 [2.14] 12.4 21.2	(3) 13.7 12.1 15.5		
AHY-M					(4) 16.5 16.2 16.8				(28) 14.9 [2.34] 10.7 20.2	(4) 15.9 12.3 22.0		
AHY-U									(8) 14.6 [3.31]			
U-U									(23) 14.3 [1.93] 12.5 21.0	(2) 17.7 13.6 21.7		

Mourning Warbler												
<i>Oporornis philadelphia</i>												
n = 319												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(1) 11.3	(2) 13.8 12.5 15.0			
HY-M									(3) 11.5 11.1 11.8	(2) 15.2 13.8 16.5		
HY-U								(21) 11.9 [1.00] 10.6 14.2	(50) 12.5 [1.10] 10.4 15.0	(7) 12.9 [1.20] 11.1 14.5		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
AHY-F					(45) 11.9 [1.02] 10.0 14.7	(9) 12.5 [1.00] 11.0 14.0	(1) 12.2	(5) 12.5 [0.56] 11.8 13.3	(24) 12.0 [1.00] 10.5 13.8	(5) 12.2 [1.70] 10.0 14.0			
AHY-M					(89) 12.9 [1.02] 10.8 15.6	(5) 13.2 [0.75] 12.5 14.3		(10) 12.6 [1.36] 9.6 13.9	(30) 13.1 [1.54] 10.3 17.9	(5) 13.4 [1.10] 12.2 14.6			
AHY-U					(4) 12.3 11.0 14.0								
U-M									(1) 13.2				
Common Yellowthroat					<i>Geothlypis trichas</i>							n = 3712	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-F							(3) 9.2 8.8 9.5	(80) 9.3 [0.62] 8.0 11.0	(488) 9.7 [1.03] 7.9 14.3	(119) 10.5 [1.23] 8.2 13.7	(2) 10.6 10.5 10.7		
HY-M							(11) 9.4 [0.89] 8.3 11.4	(112) 9.9 [0.68] 8.7 12.5	(695) 10.2 [1.08] 8.0 13.7	(156) 11.0 [1.33] 8.7 14.7	(1) 10.8		
HY-U							(66) 9.1 [0.52] 8.1 10.7	(137) 9.7 [0.75] 8.1 12.1	(61) 10.0 [1.10] 7.4 12.7	(10) 10.8 [1.57] 8.6 13.5			
AHY-F					(194) 9.5 [1.02] 7.6 13.0	(14) 9.9 [0.76] 8.9 11.5	(25) 9.6 [0.67] 8.1 10.7	(34) 9.6 [0.70] 8.1 11.7	(178) 10.0 [1.11] 7.8 15.3	(50) 11.0 [1.06] 8.6 12.8	(1) 9.2		
AHY-M				(17) 9.4 [0.44] 8.6 10.4	(325) 10.1 [0.99] 7.6 13.3	(25) 9.8 [0.55] 8.9 10.6	(27) 9.6 [0.36] 9.1 10.4	(20) 10.3 [0.70] 9.1 11.7	(276) 10.8 [1.17] 8.6 15.2	(33) 12.1 [1.63] 9.5 15.5			
AHY-U					(2) 9.9 9.0 10.8				(5) 10.0 [0.63] 9.1 10.6				
SY-F					(2) 8.7 8.6 8.7		(4) 9.2 8.9 9.9	(2) 10.7 10.2 11.1	(2) 10.1 9.7 10.4				

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
SY-M					(39) 9.7 [0.64] 8.4 11.7	(10) 9.6 [0.62] 8.6 10.4	(3) 9.7 9.0 10.3	(2) 9.4 8.8 9.9	(7) 10.1 [0.50] 9.1 10.6			
ASY-F					(16) 9.4 [0.95] 8.1 11.6	(2) 12.3 11.6 12.9	(2) 10.7 10.6 10.7	(3) 9.5 9.2 9.7	(5) 9.4 [0.45] 8.7 9.8	(2) 9.6 8.5 10.6		
ASY-M					(80) 10.3 [1.09] 8.6 13.4	(6) 9.9 [0.50] 9.2 10.4	(1) 8.8	(3) 9.8 9.2 10.7	(3) 10.3 9.6 11.0	(2) 10.7 10.2 11.2		
TY-F					(4) 8.9 7.6 10.7				(2) 9.5 9.0 9.9			
TY-M					(15) 9.6 [0.57] 8.6 10.5		(1) 9.7	(2) 9.7 9.7 9.7	(2) 10.7 10.5 10.8	(1) 12.3		
ATY-F					(9) 8.8 [0.47] 8.1 9.6	(1) 10.6	(2) 8.6 7.7 9.5	(2) 9.0 8.9 9.0	(6) 9.5 [0.93] 8.3 10.9	(1) 10.3		
ATY-M				(1) 10.7	(39) 9.4 [0.56] 8.5 11.1	(7) 9.7 [0.63] 8.9	(1) 9.6	(6) 10.0 [0.33] 9.6 10.4	(2) 10.1 9.5 10.7			
U-F								(4) 8.8 8.3 9.5	(71) 10.3 [1.02] 8.0 12.6	(5) 10.4 [0.98] 9.0 11.7	(1) 10.1	
U-M								(1) 9.2	(7) 10.1 [0.16] 9.8 10.3	(1) 12.6		
U-U								(15) 9.4 [0.57] 8.4 10.6	(126) 9.9 [0.97] 8.3 12.8	(14) 10.4 [1.40] 9.1 13.7		

## Yellow-breasted Chat

*Icteria virens*

n = 564

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(7) 28.1 [1.87] 25.6 30.6	(6) 27.3 [2.79] 23.2 30.1			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-M								(2) 24.2	(3) 25.1			
								23.0	22.9			
								25.4	26.6			
HY-U							(12) 24.4	(43) 26.0	(36) 28.3	(5) 29.5		
							[1.67]	[2.62]	[2.25]	[2.11]		
							22.2	22.4	24.3	26.7		
							27.8	34.1	32.8	31.8		
AHY-F				(1) 25.5	(101) 24.0	(11) 26.1	(21) 25.6	(15) 27.4	(10) 29.4	(1) 33.8		
					[2.24]	[1.44]	[1.57]	[2.50]	[2.29]			
					20.2	24.6	23.5	24.0	26.3			
					32.0	29.5	29.3	33.6	33.1			
AHY-M				(2) 25.7	(166) 25.0	(22) 25.2	(12) 26.0	(11) 27.8	(9) 28.3			
				25.6	[1.89]	[1.44]	[1.24]	[2.24]	[1.96]			
				25.7	20.3	22.4	24.5	23.9	25.4			
					30.4	28.2	28.3	30.0	31.7			
AHY-U				(1) 22.8	(9) 24.1		(5) 26.2	(7) 27.9	(1) 28.8	(1) 32.5		
					[1.23]		[2.53]	[2.47]				
					21.5		23.5	24.2				
					25.8		29.2	31.7				
ASY-F					(4) 24.7			(1) 24.8				
					23.4							
					26.1							
ASY-M					(4) 25.0	(1) 23.6		(2) 29.6	(1) 29.5			
					24.2			29.5				
					27.1			29.6				
TY-M					(1) 25.6							
ATY-F					(2) 24.2							
					23.5							
					24.8							
ATY-M					(14) 26.1			(1) 26.7	(2) 27.0			
					[2.12]				23.2			
					22.0				30.8			
					29.3							
ATY-U					(1) 24.0							
U-F									(5) 27.0	(1) 27.7		
									[1.12]			
									25.5			
									28.5			
U-U								(2) 27.9	(1) 30.4	(1) 25.6		
								27.4				
								28.3				

Hooded Warbler												
<i>Wilsonia citrina</i>												
n = 370												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(36) 9.8 [0.54] 8.8 11.2	(64) 9.8 [0.69] 8.1 11.6	(6) 11.6 [1.85] 10.0 14.9		
HY-M								(11) 10.8 [0.63] 9.9 12.0	(43) 10.3 [0.65] 7.4 11.8	(5) 10.9 [0.60] 10.3 11.8		
AHY-F					(36) 9.8 [0.55] 8.6 11.2	(5) 11.0 [0.67] 10.5 10.5 12.2	(2) 11.0 10.5 11.4	(2) 10.6 10.1 11.1	(7) 10.2 [0.43] 9.3 10.5	(1) 11.2		
AHY-M					(18) 10.8 [0.62] 9.4 11.8	(3) 10.7 10.0 11.3 11.7	(3) 11.3 10.8 11.7	(4) 10.0 9.7 10.4	(2) 11.2 9.9 12.4			
ASY-M					(1) 11.0							
ATY-F					(1) 9.7			(1) 12.1	(1) 12.5			
ATY-U									(1) 10.9			
U-F								(28) 10.0 [0.76] 8.7 12.3	(31) 10.2 [0.69] 8.2 11.8			
U-M								(25) 10.5 [0.84] 8.1 12.3	(30) 11.0 [0.82] 9.9 12.9	(3) 11.7 10.0 13.9		
Wilson's Warbler												
<i>Wilsonia pusilla</i>												
n = 746												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(20) 7.5 [0.64] 6.5 9.3	(68) 7.7 [0.78] 6.0 11.9	(1) 8.8		
HY-M								(17) 7.8 [0.66] 6.5 9.0	(74) 8.0 [0.73] 6.7 10.9	(3) 7.6 7.3 8.3		
HY-U									(7) 7.8 [0.45] 7.3 8.7	(1) 6.8		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
AHY-F					(44) 7.4 [0.55] 6.3 8.8	(1) 9.1		(1) 7.5	(25) 7.9 [0.84] 6.5 9.5				
AHY-M					(297) 7.6 [0.54] 6.4 9.3	(3) 8.1 7.3 9.5		(8) 7.5 [0.54] 6.4 8.1	(112) 8.0 [0.72] 6.7 10.5	(3) 8.5 7.1 10.0			
AHY-U					(26) 7.3 [0.47] 6.5 8.4			(2) 7.8 6.9 8.7	(10) 8.0 [1.01] 6.6 9.1				
U-F									(6) 7.6 [0.69] 7.1 8.9				
U-M								(1) 7.7	(1) 7.6				
U-U								(1) 7.0	(14) 7.4 [0.57] 6.6 8.2				
Canada Warbler					<i>Wilsonia canadensis</i>							n = 825	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-F								(5) 10.0 [0.86] 8.8 11.2	(1) 10.3				
HY-M								(1) 11.1	(1) 9.2				
HY-U							(1) 9.5	(101) 10.2 [0.84] 8.7 12.7	(90) 10.3 [0.83] 8.4 14.7				
AHY-F				(1) 10.6	(226) 10.2 [0.73] 8.1 12.6	(4) 10.9 10.1 11.8	(1) 9.3	(15) 10.6 [0.63] 9.5 11.6	(16) 10.2 [0.61] 9.1 10.8				
AHY-M					(289) 10.6 [0.80] 8.7 13.5			(7) 11.2 [0.50] 10.5 11.7	(13) 10.6 [0.79] 9.5 11.9				
AHY-U					(5) 9.5 [0.36] 9.2 10.0			(5) 10.0 [0.70] 9.2 11.1	(1) 10.2				



Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U-U								(34) 10.1 [0.83] 8.6 11.9	(7) 10.2 [0.74] 9.5 11.5	(1) 11.0		
American Redstart												
												n = 919
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F							(5) 8.0 [0.33] 7.6 8.5	(42) 7.8 [0.37] 7.2 9.2	(203) 8.0 [0.67] 6.5 10.3	(1) 7.5		
HY-M							(5) 8.4 [0.46] 7.8 9.1	(26) 8.1 [0.64] 7.0 9.5	(138) 8.1 [0.67] 6.7 10.1	(6) 9.1 [1.72] 7.5 12.2		
HY-U						(2) 9.7 9.5 9.8	(15) 8.7 [0.61] 7.3 9.6	(17) 8.2 [0.50] 7.3 9.0	(78) 7.8 [0.66] 6.4 10.0	(1) 7.7		
AHY-F					(90) 8.0 [0.67] 6.7 10.1	(6) 8.3 [0.50] 7.8 9.2	(12) 8.2 [0.46] 7.5 9.1	(18) 8.4 [0.81] 7.2 10.7	(24) 8.3 [0.93] 7.4 11.2	(2) 8.3 8.2 8.3		
AHY-M					(15) 8.3 [0.58] 7.0 9.1	(2) 8.5 8.1 8.8	(2) 8.6 8.6 8.7	(9) 9.1 [1.26] 7.7 12.0	(27) 8.2 [0.78] 7.2 11.0	(1) 11.6		
AHY-U					(3) 7.7 7.3 8.2			(2) 9.2 9.0 9.4				
SY-F					(1) 7.8							
SY-M					(37) 8.4 [0.57] 7.2 9.7	(7) 8.4 [0.28] 8.0 8.7	(1) 9.1					
ASY-F					(5) 8.1 [1.20] 7.2 10.2	(2) 8.6 7.5 9.6	(1) 10.4					
ASY-M				(1) 8.2	(22) 8.4 [0.78] 7.3 9.9	(3) 8.7 8.2 9.0	(2) 9.3 8.9 9.7	(2) 8.9 8.6 9.2	(7) 8.2 [0.34] 7.8 8.7			
ATY-F					(3) 7.5 7.2 8.1							

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ATY-M					(3) 8.8 8.1 9.2		(1) 9.4	(1) 9.6				
U-F							(3) 8.3 7.6 9.2	(1) 8.1	(2) 7.3 7.1 7.4			
U-U							(1) 8.0	(18) 7.8 [0.54] 6.8 8.6	(41) 7.7 [0.44] 6.8 8.7	(2) 10.1 8.6 11.6		
House Sparrow	<i>Passer domesticus</i>										n = 1541	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F					(1) 24.4	(3) 23.3 22.2 24.1	(18) 26.2 [1.64] 21.9 29.1	(6) 27.2 [1.36] 26.1 29.3	(38) 27.3 [1.70] 23.5 30.7	(54) 27.9 [1.61] 24.6 33.5	(76) 27.2 [1.94] 21.0 31.4	(9) 27.5 [1.23] 25.4 29.0
HY-M					(5) 22.6 [2.61] 20.3 26.5	(5) 26.6 [2.26] 25.0 30.5	(19) 28.2 [1.84] 25.2 31.9	(2) 25.2 24.3 26.0	(19) 27.7 [1.74] 24.3 30.6	(63) 28.3 [1.58] 24.1 32.7	(102) 28.2 [1.96] 24.3 33.6	(6) 27.8 [1.53] 25.4 29.9
HY-U					(11) 26.0 [1.85] 23.1 29.0	(44) 25.8 [1.86] 22.0 29.8	(46) 26.4 [1.98] 21.6 29.5	(1) 24.1		(3) 26.9 26.7 27.0		
AHY-F	(41) 26.3 [1.52] 22.2 29.3	(25) 27.0 [1.48] 23.4 29.4	(94) 26.9 [1.65] 20.1 29.7	(81) 28.2 [2.21] 22.7 33.7	(19) 28.2 [2.34] 24.6 32.5	(2) 28.9 28.4 29.3			(2) 27.1 23.2 31.0	(6) 28.4 [1.12] 26.5 29.3	(6) 26.4 [1.95] 23.6 29.5	(2) 28.2 27.9 28.4
AHY-M	(44) 27.9 [1.83] 23.1 32.0	(37) 28.0 [1.55] 24.0 30.6	(109) 28.0 [1.48] 23.7 31.2	(64) 28.6 [2.00] 23.2 34.0	(14) 27.6 [2.69] 20.0 30.9	(6) 28.0 [0.80] 27.0 29.1	(3) 28.7 26.3 33.3	(1) 26.8	(1) 26.0	(3) 27.9 23.7 32.5	(14) 27.8 [1.72] 24.1 30.8	(3) 26.6 25.3 28.3
AHY-U				(1) 27.2								
SY-F	(7) 26.2 [1.21] 24.8 27.7	(6) 28.0 [0.67] 26.9 28.8	(19) 27.1 [2.07] 21.2 30.6	(7) 28.5 [2.02] 26.2 32.5	(9) 27.8 [1.96] 25.3 31.3	(4) 27.6 25.5 28.3				(2) 23.9 20.4 27.4	(1) 24.4	
SY-M	(16) 27.8 [1.14] 25.6 29.4	(4) 26.6 24.8 29.4	(30) 28.1 [1.46] 24.6 31.6	(13) 27.4 [1.44] 25.1 30.0	(5) 28.0 [0.85] 27.3 29.4	(1) 26.5				(1) 28.1		
ASY-F		(3) 27.0 26.0 28.2	(9) 26.8 [2.71] 22.7 30.8	(6) 28.3 [0.76] 27.2 28.9	(4) 28.6 25.4 34.5			(1) 27.2			(4) 27.2 25.1 28.4	(1) 27.8

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ASY-M	(3) 26.3 25.3 27.6	(4) 27.7 25.6 29.2	(19) 27.7 [1.28] 25.9 30.2	(14) 27.6 [1.01] 26.3 29.7 31.2	(10) 27.2 [2.15] 24.5	(1) 27.0						(1) 28.7
TY-F	(1) 28.0		(6) 27.2 [1.42] 25.6 29.2	(3) 29.6 27.4 32.0	(1) 31.1							
TY-M	(1) 28.9	(1) 25.4	(7) 27.7 [1.43] 25.0 29.4									
ATY-F	(2) 26.6 26.2 26.9	(2) 27.2 25.9 28.4	(5) 27.6 [1.38] 25.6 29.0	(4) 28.4 25.9 31.2	(2) 26.4 25.1 27.6	(1) 27.5					(4) 29.0 26.8 30.4	
ATY-M	(2) 26.7 26.4 27.0	(2) 27.2 27.0 27.3	(11) 28.2 [1.15] 26.4 30.0	(3) 27.6 25.5 30.2	(5) 29.7 [0.96] 28.3 30.8	(3) 28.5 27.5 29.4				(1) 29.1	(1) 27.0	(1) 27.5
U-F									(1) 32.0	(10) 27.6 [1.53] 25.2 30.0	(57) 27.2 [1.80] 22.6 30.3	(9) 28.3 [0.89] 27.1 29.8
U-M										(7) 27.7 [1.25] 25.2 28.6	(58) 28.2 [1.70] 24.6 32.3	(14) 28.6 [1.90] 25.8 31.1
U-U							(2) 29.0 28.2 29.8					

## Bobolink

*Dolichonyx oryzivorus*

n = 1

(1) HY-U, Sept., 34.3.

## Eastern Meadowlark

*Sturnella magna*

n = 7

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-F					(1) 86.1	(1) 78.5						
AHY-U				(4) 101.7 83.6 119.5	(1) 118.2							

Red-winged Blackbird		<i>Agelaius phoeniceus</i>											n = 625	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
HY-F										(18) 44.2 [2.89] 39.0 48.1	(28) 45.4 [3.69] 37.5 53.0	(1) 47.3		
HY-M										(6) 66.8 [9.06] 55.5 80.3	(21) 69.5 [4.19] 63.1 77.7	(6) 63.1 [6.01] 53.6 68.8		
HY-U							(1) 33.0				(3) 44.5 41.1 47.5	(1) 47.3		
AHY-F			(6) 44.2 [2.27] 41.4 46.4	(62) 41.4 [3.32] 29.0 55.0	(130) 40.7 [2.49] 36.2 48.3	(9) 40.8 [2.44] 37.6 44.2	(4) 37.2 35.6 40.4			(3) 42.0 40.1 45.6	(11) 45.4 [3.30] 40.0 50.5			
AHY-M			(2) 65.0 64.2 65.8	(8) 63.6 [6.43] 52.9 71.8	(6) 61.8 [2.93] 57.7 66.5					(1) 64.1	(15) 71.6 [4.03] 62.7 78.2			
SY-M	(1) 67.2		(13) 64.2 [4.73] 57.6 72.8	(103) 61.9 [3.11] 54.1 69.4	(69) 63.1 [3.38] 57.0 74.9	(7) 59.0 [3.01] 54.0 62.7	(7) 60.9 [2.53] 57.1 64.7							
ASY-F				(3) 41.1 40.2 42.6	(3) 41.5 39.8 42.4									
ASY-M			(11) 64.2 [3.28] 59.6 72.1	(32) 66.7 [3.50] 58.2 72.1	(12) 63.6 [2.66] 61.1 70.6						(3) 76.9 71.5 81.1			
U-F										(8) 45.9 [4.08] 37.1 48.4	(9) 43.8 [3.86] 41.0 52.4	(1) 51.0		
U-U										(1) 44.6				
Orchard Oriole		<i>Icterus spurius</i>											n = 15	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.		
HY-F								(1) 20.0						
HY-U							(3) 22.6 22.0 23.1	(1) 25.6						

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-F					(4) 20.2 18.8 21.9		(1) 19.5					
SY-M					(4) 22.4 20.6 24.1			(1) 23.5				
Northern Oriole (Baltimore Oriole)					<i>Icterus galbula</i>							n = 131
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(1) 34.3				
HY-M									(2) 35.8 34.9 36.7			
HY-U						(1) 32.0	(2) 29.0 28.4 29.6	(9) 33.0 [3.00] 30.0 38.9				
AHY-F					(49) 33.2 [2.87] 28.1 41.3	(1) 32.4	(1) 30.8	(1) 38.4	(1) 33.2			
AHY-M				(1) 35.0	(24) 33.4 [3.60] 22.3 41.5	(2) 37.0 35.1 38.8		(1) 40.0	(3) 37.3 36.6 38.3			
SY-M					(9) 33.8 [2.53] 31.3 36.2	(2) 34.0 32.4 35.7		(1) 29.2				
ASY-F					(5) 32.6 [4.70] 28.1 38.7							
ASY-M					(14) 35.2 [2.51] 31.1 40.0							
U-F								(1) 34.9				
Rusty Blackbird					<i>Euphagus carolinus</i>							n = 245
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F										(11) 56.6 [4.61] 47.3 64.0	(9) 54.8 [4.66] 47.1 61.3	

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-M										(6) 63.8 [4.11] 58.5 70.3	(13) 65.1 [3.06] 59.3 69.3	
HY-U										(1) 52.9		
AHY-F			(17) 54.0 [3.31] 49.1 59.7	(53) 54.6 [5.20] 47.0 76.5	(4) 56.0 54.7 58.0					(11) 55.7 [6.42] 47.7 70.4	(7) 58.1 [2.59] 54.1 61.0	
AHY-M	(1) 64.8		(33) 63.1 [4.16] 45.9 69.3	(35) 63.6 [4.51] 52.4 76.8						(5) 70.6 [3.59] 64.9 74.5	(7) 69.8 [6.76] 60.6 80.4	
AHY-U			(3) 54.5 53.1 57.1	(1) 61.1						(2) 61.8 58.5 65.2		
U-F										(5) 57.6 [4.69] 51.3 64.1	(8) 57.1 [4.24] 53.5 66.3	
U-M										(7) 61.0 [5.08] 55.1 69.1	(3) 68.7 66.5 71.2	
U-U										(3) 57.5 54.3 63.7		
Common Grackle	<i>Quiscalus quiscula</i>											n = 215
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F										(14) 93.4 [5.06] 83.2 101.0	(1) 86.1	
HY-M										(13) 117.3 [10.37] 90.4 136.4		
HY-U						(9) 89.0 [8.39] 75.4 102.0	(6) 94.1 [12.64] 78.2 112.4	(3) 104.2 84.5 132.1		(1) 120.4		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-F			(1) 87.8	(8) 101.7	(18) 98.1	(11) 91.9	(2) 97.7			(2) 96.2		
				[5.83] 95.4	[11.53] 82.1	[4.28] 85.6				94.9		
				113.9	124.7	99.1				97.6		
AHY-M				(11) 122.4	(76) 118.9	(13) 120.9	(3) 130.6			(3) 118.2		
				[12.88] 96.7	[6.92] 90.9	[9.86] 90.4				107.5		
				135.4	136.9	131.4	144.8			126.0		
SY-M				(1) 118.1								
ASY-M				(4) 121.0								
U-F										(11) 95.4		
										[5.06] 89.1		
										103.5		
U-M										(3) 118.6		
										117.1		
										119.5		
U-U										(1) 94.5		

(Note: the extreme variation in weights and the large standard deviations in the grackle sample may be the result of incorrectly aged or sexed birds.)

Brown-headed Cowbird			<i>Molothrus ater</i>										n = 1476
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-F								(1) 32.6	(1) 35.5	(1) 37.5	(3) 40.5		
											38.1		
											44.4		
HY-U							(8) 35.2	(8) 35.1					
							[4.30] 31.2	[5.45] 30.4					
							42.2	45.4					
AHY-F			(7) 40.4	(299) 37.8	(275) 39.7	(5) 39.0	(3) 38.6				(1) 34.5		
			[2.18] 37.9	[2.39] 32.4	[3.09] 30.5	[2.13] 37.0							
			43.9	49.2	51.2	41.8	40.6						
AHY-M			(2) 53.0	(38) 48.4	(51) 48.8				(1) 44.5	(1) 47.6			
			52.1	[2.21] 32.4	[4.37] 36.0								
			53.8	49.2	57.4								
AHY-U				(1) 37.6	(1) 31.8								

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
SY-M			(9) 49.3 [2.20] 45.5 52.7	(198) 49.2 [3.41] 34.4 57.5	(144) 48.6 [2.78] 39.8 57.4	(1) 49.4						
ASY-F				(39) 38.0 [2.78] 32.9 47.2	(58) 40.5 [2.79] 33.2 45.5	(3) 41.3 40.2 42.2						
ASY-M			(4) 51.2 45.8 54.3	(169) 48.8 [3.08] 39.7 58.0	(133) 49.3 [3.05] 43.3 56.6	(6) 49.2 [2.73] 46.2 52.7						
U-F									(1) 33.1		(1) 30.5	
U-U								(1) 31.9	(2) 37.6 36.8 38.4			
Scarlet Tanager	<i>Piranga olivacea</i>											n = 544
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F							(3) 24.5 23.5 25.1	(32) 28.3 [1.57] 23.4 30.8	(100) 28.5 [1.78] 24.5 33.5	(2) 30.7 27.8 33.5		
HY-M							(9) 28.3 [1.53] 26.2 31.3	(33) 28.3 [1.57] 24.3 31.4	(133) 29.5 [1.75] 26.4 36.0	(7) 29.2 [3.54] 24.2 34.5		
HY-U								(1) 26.9	(5) 28.5 [2.18] 26.1 31.6	(1) 29.0		
AHY-F					(39) 27.9 [2.57] 21.8 35.1	(8) 30.3 [2.83] 25.8 35.2	(4) 28.4 25.8 29.8	(6) 28.8 [1.09] 27.2 30.0	(9) 27.2 [2.74] 21.5 30.5	(1) 31.1		
AHY-M					(10) 28.5 [1.24] 26.6 30.6			(2) 27.1 26.3 27.9	(15) 30.3 [2.32] 27.6 33.5			
AHY-U								(1) 25.8				
SY-F					(2) 27.0 26.3 27.7							



Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
SY-M					(23) 28.2 [1.56] 26.2 31.9	(3) 28.3 28.0 28.6	(1) 28.7	(2) 29.1 27.2 30.9				
ASY-M					(18) 28.3 [2.41] 24.4 34.3	(2) 27.3 27.0 27.5	(1) 28.7	(3) 31.6 29.7 34.6				
TY-M							(1) 29.3					
ATY-M					(2) 29.5 27.6 31.4							
U-F								(9) 28.1 [1.18] 26.4 30.4	(27) 28.9 [1.78] 25.0 33.6			
U-M								(4) 28.0 27.1 28.8	(24) 29.3 [3.26] 17.5 33.1			
U-U									(1) 30.3			
Summer Tanager						<i>Piranga rubra</i>						n = 4
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
SY-M				(1) 25.5	(3) 29.2 27.2 31.2							
Cardinal						<i>Cardinalis cardinalis</i>						n = 1471
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F							(8) 38.4 [3.22] 34.7 42.5	(39) 39.1 [2.89] 31.7 43.9	(55) 40.5 [2.34] 34.4 44.0	(59) 40.5 [2.48] 30.7 46.2	(38) 40.6 [2.20] 35.4 45.0	(3) 49.7 43.3 58.2
HY-M							(6) 42.4 [3.25] 38.6 47.7	(17) 41.5 [2.84] 35.9 46.1	(35) 42.1 [3.04] 34.9 51.8	(48) 42.4 [3.24] 32.1 48.7	(29) 43.8 [2.80] 38.8 48.4	(4) 46.0 44.8 47.1
HY-U							(2) 37.5 35.4 39.5	(6) 42.7 [3.47] 38.3 48.5	(12) 41.5 [2.86] 35.6 46.2	(2) 42.2 42.0 42.4		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-F	(29) 49.3 [4.68] 40.1 64.9	(21) 47.8 [3.88] 39.3 54.3	(112) 44.6 [3.62] 36.9 52.7	(63) 41.1 [2.61] 35.4 47.6	(18) 41.4 [2.28] 37.0 45.8		(5) 43.1 [1.58] 42.0 45.7	(3) 41.4 39.1 44.0	(4) 38.5 36.6 39.9	(13) 42.2 [1.88] 38.6 45.3	(12) 42.3 [2.44] 38.7 47.0	(10) 49.9 [4.91] 43.6 60.5
AHY-M	(27) 51.6 [4.11] 45.0 63.2	(15) 48.3 [4.25] 43.0 57.2	(100) 46.3 [3.48] 38.3 57.5	(51) 43.2 [3.29] 34.0 51.0	(24) 41.6 [2.72] 34.4 46.2		(2) 43.6 42.3 44.9	(1) 37.7 42.2 48.8	(4) 44.2 [2.49] 40.3 48.1	(17) 43.4 [3.48] 39.1 50.2	(13) 45.1 [4.34] 42.6 57.5	(21) 51.2 [4.34] 42.6 57.5
SY-F	(22) 46.1 [3.93] 40.3 57.3	(5) 44.4 [0.94] 43.5 45.7	(43) 43.7 [3.34] 36.0 52.1	(18) 41.3 [4.35] 36.0 47.2	(9) 40.5 [3.48] 36.3 46.0		(1) 39.5		(2) 41.2 36.0 46.4	(1) 39.9	(2) 42.2 41.3 43.1	
SY-M	(29) 47.5 [4.19] 41.4 56.3	(11) 46.2 [3.34] 40.8 50.6	(61) 46.2 [3.75] 37.7 53.3	(23) 41.9 [2.52] 37.0 47.2	(8) 40.4 [1.73] 38.5 43.0		(1) 41.6	(1) 40.9	(2) 43.1 40.7 45.5	(1) 47.6	(5) 45.2 [1.17] 43.6 46.1	(1) 41.0
ASY-F	(4) 44.6 41.4 47.8	(5) 47.4 [3.19] 42.9 50.3	(13) 44.4 [2.46] 40.9 48.1	(4) 43.5 41.4 49.4	(1) 42.2			(1) 44.2			(1) 44.8	(1) 43.5
ASY-M	(9) 49.0 [2.91] 42.9 52.5	(7) 49.5 [3.32] 45.2 53.6	(14) 46.2 [2.10] 43.1 49.4	(12) 40.6 [1.55] 37.8 43.1	(3) 42.0 40.1 44.3		(1) 40.8		(1) 38.8	(2) 47.1 46.2 48.0		
TY-F	(2) 46.6 45.9 47.2	(2) 49.9 48.5 51.2	(2) 44.1 43.7 44.5	(2) 42.8 42.2 43.3	(1) 50.1			(1) 45.0	(1) 42.6			
TY-M	(1) 52.8		(5) 44.7 [1.35] 43.0 46.4	(3) 42.8 42.3 43.2 50.2	(4) 44.9 42.4 50.2						(3) 47.8 42.9 50.4	
ATY-F	(7) 46.0 [2.86] 42.4 50.1	(4) 44.9 42.1 47.8	(19) 44.0 [2.63] 41.0 50.9	(7) 41.9 [4.86] 33.6 49.2	(2) 43.0 42.7 43.3		(1) 42.2		(4) 42.5 40.3 43.6		(4) 41.7 41.0 43.2	(3) 46.3 45.3 47.0
ATY-M	(5) 46.9 [1.16] 45.5 48.2	(9) 48.7 [5.01] 42.0 55.0	(33) 45.6 [2.73] 40.8 51.4	(17) 43.0 [2.97] 38.0 50.7	(9) 43.3 [2.34] 39.5 47.9	(3) 43.7 43.3 44.1		(1) 38.9	(4) 41.8 38.8 44.5	(1) 41.8	(4) 45.1 42.1 47.1	(1) 46.3
U-F									(1) 45.2	(17) 40.8 [2.69] 34.6 45.3	(5) 42.2 [3.05] 39.5 47.3	(9) 45.5 [3.63] 41.3 51.2

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U-M									(1) 42.6	(10) 41.6 [3.16] 33.7 45.2	(9) 43.4 [3.46] 36.6 48.1	(1) 53.7
Rose-breasted Grosbeak <i>Pheucticus ludovicianus</i>											n = 494	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F							(4) 41.4 37.7 45.0	(14) 41.7 [1.77] 39.0 45.3	(70) 45.4 [3.68] 33.8 56.0	(7) 47.9 [3.14] 43.3 52.2		
HY-M							(4) 39.0 36.7 41.3	(21) 40.8 [3.30] 32.8 48.6	(88) 45.0 [3.63] 37.5 53.4	(7) 54.5 [6.76] 46.3 63.0		
HY-U							(1) 40.6					
AHY-F					(67) 46.2 [4.13] 38.3 56.1		(4) 41.8 40.7 43.3	(7) 41.6 [3.51] 35.4 46.8	(21) 45.4 [4.37] 38.7 52.6	(1) 62.4		
AHY-M					(2) 41.0 39.9 42.1			(6) 41.1 [4.44] 36.9 49.2	(20) 48.3 [3.15] 43.3 55.4	(2) 49.0 47.6 50.5		
SY-M				(2) 43.7 42.2 45.3	(28) 44.4 [4.24] 37.3 52.5		(1) 40.5	(8) 43.7 [1.83] 39.7 45.7	(2) 46.7 46.6 46.8			
ASY-M				(2) 44.9 44.1 45.7	(59) 46.3 [4.80] 38.6 57.5		(5) 40.3 [2.40] 36.3 42.5					
TY-M					(1) 41.9	(1) 43.0						
ATY-M					(2) 42.7 42.3 43.1				(1) 40.5			
U-F								(1) 40.2	(29) 45.9 [4.00] 38.5 56.3	(2) 58.5 52.1 65.0		
U-M									(3) 46.6 42.2 49.5			
U-U								(1) 43.2				

Indigo Bunting		<i>Passerina cyanea</i>										n = 1288
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F							(2)	(32)	(101)	(16)		
							13.7	13.8	14.2	15.9		
							13.1	[0.98]	[1.26]	[2.30]		
							14.2	12.2	11.7	12.9		
HY-M								16.7	20.0	19.9		
							(10)	(22)	(65)	(8)		
							14.2	14.5	14.6	15.2		
							[0.87]	[1.14]	[1.05]	[1.48]		
HY-U							13.0	12.0	12.5	13.2		
							16.1	16.5	19.0	17.8		
							(29)	(71)	(76)	(16)		
							14.1	14.7	14.4	14.6		
AHY-F							[0.96]	[1.26]	[1.00]	[0.88]		
							12.5	12.2	11.6	13.5		
							16.2	17.7	16.9	17.1		
						(137)	(29)	(35)	(25)	(33)	(12)	
AHY-M							13.7	14.2	14.1	13.8	14.8	15.9
							[0.97]	[1.16]	[1.24]	[1.38]	[1.20]	[1.64]
							11.4	12.1	12.4	11.5	12.7	13.8
							18.0	17.2	17.5	18.0	18.3	18.5
SY-F				(1)	(50)	(6)	(9)	(10)	(52)	(14)		
				16.7	14.7	14.1	14.4	15.0	16.1	16.5		
					[0.88]	[0.80]	[0.92]	[0.73]	[1.77]	[1.38]		
					13.0	13.2	13.1	14.1	13.4	14.4		
SY-M							16.7	15.3	15.9	16.4	21.4	18.5
							(2)	(2)	(2)	(3)		
							15.2	14.4	12.8	12.2		
							13.6	13.7	12.3	11.4		
ASY-F							16.7	15.1	13.2	13.6		
							(101)	(23)	(19)	(4)	(7)	
							14.5	14.5	14.5	14.5	15.3	
							[0.92]	[0.96]	[0.70]	13.0	[1.81]	
ASY-M							12.7	12.8	12.8	15.4	13.3	
							16.7	17.3	15.6		18.8	
							(6)	(2)	(5)	(5)	(1)	
							13.7	14.4	13.0	13.8	16.6	
TY-F							[0.74]	14.4	[1.83]	[0.83]		
							12.5	14.4	11.2	12.7		
							14.5		15.8	14.7		
							(2)	(40)	(5)	(1)	(10)	(3)
TY-M							15.0	14.7	14.8	15.6	15.4	16.1
							14.2	[0.94]	[0.64]	[0.98]	15.2	
							15.8	13.1	14.2	14.0	16.7	
							17.2	15.9		16.8		
TY-F							(3)	(2)	(1)	(3)		
							13.7	14.1	13.6	13.2		
							12.7	13.9		12.7		
							15.4	14.2		13.8		
TY-M							(13)	(5)	(4)	(5)	(3)	
							14.7	14.5	14.8	14.4	14.8	
							[0.55]	[0.70]	14.4	[0.59]	12.6	
							14.0	13.7	15.2	13.4	16.2	
						15.6	15.2		14.9			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ATY-F					(14) 14.4 [1.69] 12.6 18.5	(1) 18.6	(4) 14.0 13.4 14.6	(6) 15.0 [0.93] 13.6 16.3	(5) 14.5 [1.02] 13.5 16.1	(1) 13.7		
ATY-M					(45) 14.5 [1.30] 12.3 20.7	(3) 13.9 13.8 14.1 15.9	(7) 14.7 [0.72] 13.7 15.9	(7) 15.4 [0.76] 13.8 16.0	(12) 16.2 [1.87] 14.3 20.1			
U-M						(2) 16.4 15.0 17.7		(1) 14.5				
U-U								(8) 14.2 [0.90] 13.1 15.9	(27) 14.9 [0.96] 13.2 16.8	(2) 16.0 14.5 17.4		
Evening Grosbeak	<i>Hesperiphona vespertina</i>										n = 2047	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F											(3) 56.4 54.7 57.3	(22) 61.2 [4.21] 55.8 70.6
HY-M											(2) 61.3 57.0 65.6	(11) 59.1 [4.23] 51.6 64.3
AHY-F	(77) 60.5 [3.77] 51.8 72.5	(111) 60.7 [4.17] 52.6 70.1	(227) 59.5 [4.00] 47.0 69.8	(138) 58.2 [4.61] 43.2 73.0	(21) 63.3 [5.01] 57.3 73.2						(1) 56.3	(33) 59.3 [3.33] 51.5 65.6
AHY-M	(59) 61.5 [3.51] 53.7 70.3	(100) 62.0 [4.16] 51.2 72.1	(151) 60.1 [3.88] 49.7 70.2	(87) 59.3 [5.61] 45.4 86.1	(20) 66.8 [5.96] 54.9 77.7						(3) 60.9 55.3 65.2	(75) 62.0 [3.93] 54.8 73.4
SY-F	(8) 58.9 [1.82] 56.0 62.0	(4) 64.1 58.7 68.8	(92) 56.5 [7.25] 46.5 68.6	(124) 56.3 [4.08] 45.5 68.3	(4) 62.4 53.2 70.3							
SY-M	(1) 60.3		(37) 56.9 [2.90] 51.4 65.0	(97) 57.9 [3.26] 51.0 69.3	(5) 59.7 [4.01] 55.1 63.3							
ASY-F	(5) 58.3 [1.52] 55.8 59.7	(8) 61.1 [3.47] 57.5 68.6	(110) 57.9 [3.83] 51.1 70.8	(118) 57.6 [4.35] 49.0 73.5	(7) 62.2 [7.11] 52.1 69.6							

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ASY-M	(15) 63.1 [3.76] 58.0 70.9	(6) 62.4 [3.04] 57.9 65.5	(76) 58.9 [4.10] 49.6 67.4	(111) 58.7 [4.60] 38.7 73.3	(4) 67.4 63.5 70.5							
U-F										(2) 67.7 67.2 68.2	(4) 57.8 55.1 60.5	(63) 59.8 [3.11] 53.5 66.6
U-M										(1) 65.4	(2) 60.0 56.3 63.8	(2) 63.0 62.7 63.3
<i>Carpodacus purpureus</i>												
n = 525												
Purple Finch	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Age/Sex												
HY-M										(1) 25.1		
HY-U						(1) 21.5	(1) 22.9		(43) 22.7 [1.58] 18.3 26.0	(142) 24.2 [1.80] 20.5 29.9	(17) 25.0 [3.30] 19.1 33.3	(4) 25.6 24.7 26.6
AHY-F					(1) 24.0	(1) 22.0			(1) 21.7	(24) 24.1 [1.99] 18.1 28.0		
AHY-M			(1) 25.7	(13) 25.6 [1.26] 23.5 27.6	(2) 27.2 25.1 29.3				(1) 23.5	(36) 25.0 [1.61] 21.4 28.7	(5) 25.6 [0.50] 25.0 26.3	(2) 23.4 23.4
AHY-U		(1) 25.9	(6) 24.7 [1.72] 23.1 28.0	(72) 24.6 [2.36] 19.8 35.3	(30) 26.1 [2.95] 22.1 33.1					(21) 23.8 [1.78] 21.0 26.7		(2) 26.8 23.6 30.0
SY-M					(1) 22.1				(1) 21.6		(1) 27.1	
ASY-M			(4) 27.4 24.5 28.7	(54) 24.9 [2.55] 18.6 32.0	(2) 27.1 23.7 30.4					(1) 22.8		
U-U									(3) 22.5 20.1 23.9	(24) 24.1 [2.05] 19.7 28.0	(5) 24.2 [1.57] 22.0 26.0	(1) 22.8
<i>Carduelis flammea</i>												
n = 13												
Common Redpoll	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Age/Sex												
AHY-F											(1) 13.2	

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-U			(2) 11.7	(3) 15.0								
			11.5	13.1								
			11.9	16.6								
ASY-M			(1) 14.6	(6) 15.0								
				[1.03]								
				13.6								
				16.5								
Pine Siskin	<i>Carduelis pinus</i>											n = 356
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U										(25)	(3)	
										13.5	12.3	
										[1.24]	12.2	
										11.7	12.6	
										16.8		
AHY-U	(7) 16.2	(11) 17.6	(132) 15.1	(111) 14.1	(21) 14.5				(1) 12.3	(13) 13.4	(4) 13.6	
	[1.17]	[1.20]	[1.31]	[1.18]	[1.75]					[1.38]	11.6	
	15.0	16.0	12.1	11.8	12.1					10.8	15.3	
	18.6	20.1	19.0	19.0	18.7					15.6		
U-U										(16)	(12)	
										12.9	13.5	
										[0.79]	[0.60]	
										11.3	12.5	
										14.1	14.7	
American Goldfinch	<i>Carduelis tristis</i>											n = 5180
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F								(2) 11.7	(110) 11.4	(269) 12.1	(79) 12.7	(2) 15.0
								11.2	[0.92]	[0.81]	[0.87]	14.1
								12.2	8.6	9.7	10.9	15.8
									13.7	14.5	14.9	
HY-M								(6) 12.1	(116) 12.0	(226) 12.4	(68) 13.1	(1) 13.8
								[0.86]	[1.08]	[0.80]	[1.03]	
								11.0	9.4	9.6	10.5	
								13.4	15.3	14.8	16.3	
HY-U								(13) 11.7	(223) 11.8	(101) 12.2	(135) 12.8	
								[1.12]	[0.97]	[0.80]	[0.88]	
								9.8	8.4	10.1	10.5	
								13.7	14.8	13.9	15.1	
AHY-F	(7) 14.2	(6) 14.1	(74) 13.6	(158) 13.2	(520) 12.4	(24) 12.1	(15) 12.5	(122) 12.5	(281) 12.4	(152) 12.5	(133) 12.9	
	[1.20]	[1.12]	[1.00]	[0.81]	[0.90]	[0.72]	[0.60]	[0.90]	[0.85]	[0.76]	[0.97]	
	13.4	12.7	11.8	10.5	10.3	10.6	11.6	10.7	10.0	10.4	10.4	
	16.8	15.6	17.1	15.7	16.5	13.5	13.4	15.3	15.2	15.0	16.1	
AHY-M	(9) 14.5	(14) 15.4	(142) 14.2	(257) 13.9	(327) 12.6	(17) 11.9	(11) 11.9	(129) 12.5	(264) 13.0	(158) 13.3	(189) 13.4	
	[0.80]	[1.35]	[1.05]	[0.83]	[1.03]	[0.63]	[0.47]	[0.83]	[0.86]	[1.00]	[0.88]	
	13.0	13.6	11.5	11.6	10.6	10.5	11.1	10.5	10.0	10.5	11.5	
	15.8	18.8	17.1	16.6	17.1	13.0	13.0	14.6	15.4	19.4	19.4	

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-U			(7) 14.2 [1.02] 12.9 15.5	(3) 13.6 13.1 14.5	(4) 12.3 11.6 13.3				(3) 10.9 9.0 12.0	(4) 12.6 12.2 13.2	(6) 12.9 [0.46] 12.4 13.7	
SY-F					(1) 11.2			(1) 11.2				
SY-M	(1) 14.0		(46) 14.3 [0.93] 12.6 17.1	(83) 13.6 [0.90] 12.1 16.3	(159) 12.7 [1.00] 8.6 16.2	(5) 11.6 [0.63] 10.8 12.4	(2) 11.3 10.9 11.6	(10) 12.7 [0.78] 11.2 13.9	(22) 12.7 [0.85] 11.1 14.2	(3) 13.4 13.0 14.0		
ASY-F					(11) 11.9 [0.74] 10.6 13.1			(10) 12.2 [0.48] 11.4 12.9	(8) 12.2 [0.67] 11.0 13.0	(1) 10.7	(2) 13.1 12.6 13.5	
ASY-M	(1) 13.4	(1) 20.7	(30) 14.3 [1.02] 12.6 16.4	(92) 13.9 [0.91] 11.6 17.6	(107) 12.8 [1.13] 9.2 15.6	(2) 12.6 11.9 13.3	(3) 12.3 12.0 12.5	(10) 12.6 [0.48] 11.7 13.3	(19) 12.8 [0.83] 11.5 14.3	(1) 13.0	(1) 9.9	
TY-F					(1) 13.3					(1) 13.3		
ATY-F			(2) 12.8 12.6 12.9	(1) 12.8	(4) 12.1 11.2 12.7	(2) 12.1 11.7 12.4	(1) 12.8	(3) 12.2 11.5 13.4		(4) 11.9 11.4 12.3		
ATY-M		(1) 15.2	(3) 13.3 12.5 13.9	(5) 14.3 [1.30] 12.4 15.4	(17) 11.9 [0.67] 11.0 13.3	(3) 12.3 11.7 12.7	(1) 12.7	(10) 12.7 [0.73] 11.7 14.2	(8) 12.7 [0.45] 11.8 13.4	(4) 12.8 11.9 13.9	(3) 13.5 11.8 14.7	
U-F									(1) 11.6		(1) 11.5	
U-M									(1) 11.6	(6) 13.0 [0.92] 12.2 14.1		(1) 13.7
U-U								(1) 11.7	(8) 12.0 [0.91] 10.5 13.2	(48) 12.4 [1.14] 10.2 15.5	(20) 12.9 [0.68] 10.9 13.8	

## Rufous-sided Towhee

*Pipilo erythrophthalmus*

n = 711

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F							(5) 36.3 [2.08] 33.9 39.1	(16) 36.8 [1.82] 34.5 41.2	(42) 39.7 [2.10] 35.7 44.5	(98) 39.1 [2.64] 30.8 47.6	(4) 39.7 37.2 43.1	



Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-M					(1) 40.4	(1) 41.3	(8) 38.5 [2.66] 35.5 42.3	(36) 39.0 [2.12] 34.8 44.5	(62) 42.7 [3.45] 29.3 51.5	(102) 42.8 [2.59] 35.7 49.0	(3) 48.4 42.5 51.5	
AHY-F				(21) 38.0 [2.98] 33.7 46.8	(31) 38.6 [4.16] 32.1 52.3	(2) 40.7 40.0 41.4	(2) 36.5 34.3 38.7	(6) 39.5 [1.86] 37.9 43.1	(14) 39.6 [2.26] 36.2 43.6	(37) 39.9 [2.88] 33.9 44.7		
AHY-M			(6) 42.9 [2.31] 39.4 45.8	(15) 40.7 [1.95] 38.4 45.6	(15) 40.2 [2.37] 36.1 46.5	(1) 40.4	(3) 45.5 43.4 47.4	(3) 41.3 39.6 42.2	(8) 42.8 [2.31] 39.2 45.9	(33) 43.0 [2.99] 37.8 50.0		
SY-M			(4) 42.8 42.3 43.5	(35) 40.9 [2.26] 36.9 44.5	(21) 40.6 [3.26] 32.1 45.2	(3) 41.3 40.4 42.3	(3) 42.2 38.8 44.7	(2) 41.4 39.7 43.4	(2) 44.7 44.7 44.7	(2) 42.0 41.4 42.6		
ASY-F					(2) 36.2 34.0 38.4			(1) 40.5	(1) 42.7			
ASY-M			(2) 40.8 37.8 43.8	(19) 41.8 [2.03] 37.9 45.0	(10) 41.4 [1.63] 39.0 43.9	(1) 42.5		(1) 40.4	(1) 41.3			
TY-M				(3) 40.3 38.6 43.6	(3) 43.1 42.2 43.9					(1) 43.2		
ATY-F				(4) 39.5 33.6 43.1	(2) 40.2 39.5 40.9							
ATY-M			(1) 48.2	(1) 39.5	(2) 40.6 39.5 41.7					(2) 47.8 47.1 48.5		
U-F									(1) 45.4	(3) 39.5 37.4 40.9		(1) 50.4
U-M										(2) 45.1 44.1 46.1		

## Savannah Sparrow

*Passerculus sandwichensis*

n = 60

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(1) 15.6	(5) 18.1 [0.42] 17.4 18.5	(5) 19.3 [2.09] 16.9 22.3		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-U			(19) 18.3 [1.27] 15.4 20.3	(10) 18.6 [1.85] 16.1 23.0	(2) 17.3 16.2 18.4				(1) 16.8	(1) 17.2		
U-U								(4) 16.0 14.9 17.4	(11) 16.7 [1.93] 12.4 20.5	(1) 21.9		

## Grasshopper Sparrow

*Ammodramus savannarum*

n = 21

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(4) 16.6 15.4 17.8	(2) 16.1 15.7 16.5	(2) 19.0 17.0 21.0		
AHY-M					(1) 16.6							
AHY-U					(6) 16.1 [0.90] 15.1 17.3							
U-U									(4) 16.3 15.3 17.4	(2) 17.2 16.7 17.6		

## Henslow's Sparrow

*Ammodramus henslowii*

n = 4

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(2) 13.8 11.7 15.9		(1) 12.3		
U-U										(1) 12.2		

## Vesper Sparrow

*Pooecetes gramineus*

n = 21

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U								(1) 26.3	(2) 22.6 22.0 23.1	(1) 21.5		
AHY-F					(1) 22.2							
AHY-M					(2) 25.0 24.7 25.2							
AHY-U			(2) 25.8 25.4 26.2	(5) 23.6 [1.36] 22.0 25.4	(3) 24.5 21.8 26.2					(1) 24.3		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U-U									(3) 25.4 24.6 26.1			
Dark-eyed Junco (Slate-colored Junco) <i>Junco hyemalis</i> n = 7715												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F										(111) 17.9 [1.08] 15.0 21.3	(136) 18.0 [1.30] 15.5 22.1	(7) 19.9 [1.39] 17.9 21.9
HY-M										(67) 19.5 [1.10] 17.2 23.4	(132) 20.0 [1.48] 15.6 23.6	(2) 23.3 21.9 24.6
HY-U									(5) 18.0 [0.90] 16.9 19.4	(268) 18.6 [1.31] 15.6 22.8	(269) 19.5 [1.39] 16.3 25.8	(14) 21.1 [1.33] 18.2 23.2
AHY-F	(24) 21.2 [1.64] 18.2 24.9	(6) 20.5 [0.79] 19.4 21.5	(213) 19.1 [1.41] 14.3 23.4	(776) 18.7 [1.51] 14.6 23.6	(4) 20.1 18.1 22.2				(1) 17.4 19.4	(169) 18.2 [1.22] 14.4 21.2	(94) 18.9 [1.13] 16.1 21.3	(4) 21.0 18.5 25.1
AHY-M	(28) 22.7 [1.52] 20.0 25.6	(13) 22.0 [1.26] 19.9 24.0	(1016) 20.6 [1.53] 16.4 25.4	(982) 20.4 [1.61] 16.3 26.7					(1) 18.6 23.1	(418) 19.5 [1.21] 14.3 25.1	(285) 20.2 [1.42] 15.5 25.1	(13) 22.2 [1.20] 20.5 24.2
AHY-U	(23) 22.3 [1.15] 20.4 26.0	(11) 22.1 [2.30] 18.1 26.2	(790) 20.0 [1.54] 13.5 25.3	(951) 19.5 [1.53] 14.2 25.1	(6) 19.7 [1.15] 17.9 21.0				(3) 19.4 18.8 20.2	(313) 18.6 [1.29] 13.6 22.6	(171) 19.7 [1.18] 17.0 23.1	(4) 21.4 19.6 23.4
SY-F	(1) 23.0		(2) 19.4 18.6 20.1	(1) 17.7								
SY-M				(1) 22.6							(1) 20.1	
SY-U	(3) 22.2 21.8 22.5		(6) 19.4 [1.28] 17.0 20.3	(3) 20.8 19.6 21.5								
ASY-F			(6) 19.3 [0.28] 19.0 19.7	(3) 21.0 20.3 21.6								
ASY-M	(1) 23.4		(16) 20.7 [1.32] 18.7 23.0	(9) 20.7 [1.54] 17.4 22.6					(3) 18.8 17.4 19.9	(5) 19.8 [1.24] 17.7 20.7		

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
ASY-U	(3) 20.9 20.2 21.5		(5) 19.6 [0.98] 20.6	(6) 19.4 [1.50] 17.7 21.3								(1) 19.1	
ATY-M	(4) 20.8 19.3 22.0			(5) 22.0 [0.67] 21.5 23.1						(1) 18.7	(1) 18.7		
ATY-U	(1) 22.2		(7) 21.0 [0.61] 20.2 22.0										
U-F											(9) 19.6 [1.27] 18.5 22.3	(3) 21.5 20.7 22.1	
U-M											(13) 20.4 [1.47] 18.1 23.3	(3) 21.2 20.1 22.9	
U-U										(138) 18.5 [1.47] 12.9 22.7	(115) 19.2 [1.29] 13.9 22.0	(9) 20.6 [1.90] 18.0 23.0	
Dark-eyed Junco hybrids (Slate-colored × Oregon)			<i>Junco h. hyemalis</i> × <i>J. h. montanus</i>									n = 44	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
HY-F											(1) 18.0		
HY-U											(2) 17.5 17.2 17.8		
AHY-F			(1) 18.7	(1) 20.1									
AHY-U			(5) 19.7 [0.56] 19.1 20.6	(34) 18.8 [1.41] 16.4 21.7									
Dark-eyed Junco (Oregon Junco)			<i>Junco hyemalis montanus</i>									n = 3	
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	
AHY-F			(1) 22.5										
AHY-M	(1) 21.1												
AHY-U										(1) 16.5			

## Tree Sparrow

*Spizella arborea*

n = 1585

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U										(2) 15.8 15.3 16.2	(78) 16.9 [1.16] 13.8 19.7	
AHY-U	(169) 18.9 [1.56] 15.7 25.6	(105) 19.4 [1.33] 16.5 22.5	(590) 18.5 [1.51] 14.2 23.7	(153) 18.4 [1.73] 14.0 25.7	(2) 19.7 18.1 21.3					(4) 17.2 15.3 19.1	(160) 17.3 [1.25] 14.5 20.5	(11) 17.8 [1.64] 15.4 21.2
SY-U	(3) 18.6 17.3 20.0	(4) 19.0 17.7 21.7	(6) 18.8 [1.29] 20.4	(5) 17.9 [1.05] 16.8 19.5								
ASY-U	(6) 18.5 [0.87] 17.0 19.5	(8) 18.8 [1.14] 17.6 20.2	(37) 18.7 [1.28] 16.1 21.2	(12) 18.5 [2.01] 15.2 22.2							(7) 17.6 [0.99] 16.0 18.9	(1) 16.9
TY-U	(2) 18.9 18.6 19.1		(4) 18.7 17.6 21.1									
ATY-U	(5) 19.2 [0.90] 18.2 20.6	(6) 19.8 [0.70] 18.5 20.4	(40) 18.6 [1.45] 15.1 21.3	(9) 19.2 [2.23] 16.5 22.6							(5) 17.9 [1.31] 16.0 19.5	
U-U										(1) 16.4	(98) 17.8 [1.49] 14.0 22.7	(52) 18.9 [1.75] 15.6 23.9

## Chipping Sparrow

*Spizella passerina*

n = 1143

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U						(5) 12.3 [0.17] 12.2 12.6	(2) 12.4 11.7 13.0 13.7	(9) 11.5 [1.12] 10.1 13.7	(75) 12.1 [0.84] 10.1 14.7	(115) 12.4 [0.92] 10.5 15.4	(3) 13.2 12.5 13.8	
AHY-F				(2) 13.6 13.5 13.7	(14) 12.4 [1.17] 10.6 14.6	(6) 11.8 [1.29] 10.5 14.0	(1) 12.7	(1) 11.4				
AHY-M				(15) 12.3 [0.57] 11.5 13.4	(53) 11.9 [0.81] 9.9 13.9	(5) 12.5 [0.57] 11.5 12.9			(2) 12.2 11.1 13.2			

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
AHY-U			(2) 13.8 13.3 14.2	(361) 12.3 [1.07] 10.1 18.8	(316) 11.7 [0.87] 9.8 15.1	(1) 12.5	(1) 12.9	(1) 11.9	(17) 12.2 [0.66] 11.4 14.0	(46) 12.7 [0.83] 11.1 14.3	(2) 12.3 12.0 12.6	
SY-U				(6) 12.2 [0.42] 11.9 12.9	(4) 12.4 11.9 12.8							
ASY-F				(1) 11.7	(1) 13.7	(1) 12.7						
ASY-M				(8) 12.4 [0.68] 11.7 13.6	(13) 12.4 [0.62] 11.1 13.1	(1) 12.5						
ASY-U				(28) 12.5 [0.67] 11.2 14.3	(15) 12.5 [0.67] 11.5 13.9				(1) 11.9	(4) 12.8 11.7 14.5		
U-U										(3) 12.4 11.7 12.8	(1) 12.6	(1) 12.4
Field Sparrow	<i>Spizella pusilla</i>											n = 4778
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F							(1) 10.2	(1) 12.8		(2) 12.5 12.4 12.6		
HY-M							(1) 12.8	(2) 11.7 11.5 11.8	(1) 12.3	(3) 12.1 11.2 13.5	(4) 12.4 11.3 13.3	
HY-U						(3) 11.6 9.2 12.8	(128) 12.0 [0.72] 10.2 14.3	(222) 12.0 [0.94] 10.0 15.7	(189) 12.6 [0.95] 10.3 15.7	(1057) 12.9 [0.92] 9.0 17.2	(103) 13.2 [1.14] 10.9 16.5	
AHY-F			(1) 13.4	(4) 12.1 11.4 12.9	(44) 12.6 [1.15] 11.0 15.9	(17) 12.9 [1.19] 10.3 14.7	(22) 12.1 [1.34] 10.4 16.5	(32) 12.1 [0.76] 11.2 14.0	(12) 12.6 [0.93] 11.1 14.4	(8) 11.9 [0.94] 10.4 13.3		
AHY-M			(1) 12.0	(43) 12.6 [0.80] 10.9 14.7	(99) 12.3 [0.73] 10.2 13.8	(35) 12.3 [0.76] 10.3 14.1	(18) 12.3 [0.72] 10.9 13.6	(23) 12.6 [0.69] 11.0 13.7	(18) 13.0 [0.93] 10.5 14.5	(34) 13.5 [1.34] 11.8 15.3	(1) 16.2	
AHY-U	(6) 14.2 [2.00] 11.0 16.6	(2) 13.2 12.7 13.6	(131) 13.3 [1.04] 10.8 17.2	(876) 12.5 [1.00] 9.7 16.9	(289) 11.9 [0.98] 9.4 15.5	(2) 12.8 12.5	(3) 12.4 11.8	(38) 12.3 [0.81] 10.8 14.0	(50) 12.6 [0.95] 10.8 14.8	(525) 13.2 [1.06] 10.1 16.7	(57) 13.8 [1.12] 10.1 16.0	

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
SY-F				(1) 10.5	(2) 11.8 11.5 12.0			(2) 11.6 10.8 12.3		(4) 13.8 12.8 15.3		
SY-M	(1) 13.5			(1) 12.1	(7) 12.6 [0.74] 11.6 13.6	(1) 12.7			(1) 11.9	(4) 12.6 12.0 14.0		
SY-U	(2) 14.4 14.0 14.8		(1) 10.5	(8) 12.5 [0.52] 11.9 13.5	(8) 11.9 [0.24] 11.5 12.3			(1) 12.4	(1) 12.6	(5) 12.8 [0.83] 11.8 13.6	(1) 12.7	
ASY-F				(4) 12.8 12.2 13.4	(5) 12.5 [1.48] 11.5 15.1			(5) 11.6 [0.81] 10.9 13.0	(3) 12.1 11.8 12.2	(2) 12.6 12.5 12.7		
ASY-M		(1) 13.7	(1) 12.3	(32) 12.2 [0.63] 10.7 13.6	(31) 12.4 [0.53] 11.3 13.5	(4) 12.2 11.8 12.6	(2) 12.5 11.8 13.1	(4) 13.2 12.7 13.5	(6) 12.9 [1.26] 10.7 14.4	(10) 13.1 [0.69] 11.8 14.2		
ASY-U				(8) 12.8 [0.74] 11.6 14.0	(8) 12.1 [1.01] 10.4 13.5				(5) 13.5 [1.25] 11.9 15.0	(8) 12.4 [0.54] 11.8 13.6	(1) 15.0	(1) 14.0
TY-F					(1) 12.3					(1) 11.5		
TY-M				(6) 12.8 [0.67] 12.1 13.7	(3) 12.0 11.6 12.2					(2) 12.7 12.5 12.8		
TY-U				(7) 12.3 [0.64] 11.6 13.5							(1) 13.0	
ATY-F				(1) 13.7	(6) 13.4 [1.55] 11.5 15.6	(1) 13.8	(3) 12.0 11.5 12.5	(4) 11.7 10.2 13.3		(2) 13.7 13.3 14.0		
ATY-M			(1) 13.0	(22) 12.6 [0.92] 11.4 14.8	(20) 12.7 [0.73] 11.5 14.6	(1) 11.9	(3) 12.4 12.3 12.6	(4) 12.5 11.3 13.6	(2) 13.1 12.9 13.3	(5) 12.6 [0.40] 12.2 13.2	(1) 15.3	
ATY-U	(2) 15.3 14.6 15.9		(6) 13.4 [0.81] 12.5 14.8	(8) 12.5 [0.55] 11.3 13.0	(3) 12.0 11.5 12.6			(1) 10.5	(1) 13.7	(8) 13.5 [1.28] 12.2 15.6	(1) 12.7	

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U-U								(3) 11.2 10.6 12.0	(25) 12.7 [0.92] 10.8 14.7	(261) 13.0 [0.96] 10.0 17.1	(50) 13.6 [0.81] 11.9 15.2	(12) 13.4 [1.37] 10.2 15.0

## White-crowned Sparrow

*Zonotrichia leucophrys*

n = 231

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U									(1) 27.0	(64) 27.4 [2.64] 18.9 33.1	(4) 30.2 23.1 33.3	
AHY-U					(118) 30.0 [3.22] 24.6 38.5				(3) 25.3 23.1 26.5 33.3	(41) 28.0 [2.56] 21.6 33.3		

## White-throated Sparrow

*Zonotrichia albicollis*

n = 3501

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U									(88) 24.2 [1.65] 19.5 28.2	(1220) 25.5 [2.06] 19.3 32.6	(306) 26.8 [2.74] 20.3 37.1	(3) 27.8 26.3 29.2
AHY-U	(10) 28.2 [3.78] 20.7 34.3	(2) 24.7 24.1 25.3	(20) 26.8 [3.55] 22.2 34.1	(232) 27.7 [2.39] 22.0 35.4	(163) 25.8 [2.45] 21.2 33.7		(1) 29.2		(29) 24.2 [1.36] 22.0 27.9	(1061) 25.7 [2.10] 19.9 33.1	(59) 27.1 [2.35] 19.0 32.2	(1) 28.5
SY-U	(2) 30.1 29.4 30.8	(1) 30.0	(7) 25.8 [2.46] 22.3 28.6	(2) 27.2 26.5 22.3 27.8	(1) 23.6							
ASY-U	(1) 32.1		(3) 29.1 28.2 29.6	(1) 28.3								
U-U									(27) 24.4 [1.60] 22.1 29.0	(232) 25.0 [2.02] 19.6 30.8	(23) 26.6 [1.99] 23.5 31.1	(6) 28.8 [2.42] 25.4 31.8

## Fox Sparrow

*Passerella iliaca*

n = 446

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-U										(56) 35.2 [2.40] 29.6 40.4	(50) 37.4 [2.78] 32.6 43.9	





Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
U-U									(9) 16.2 [1.17] 17.6	(140) 16.5 [1.47] 20.8	(3) 18.0 17.7 18.6	(1) 15.8
Song Sparrow <i>Melospiza melodia</i> n = 5596												
Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
HY-F							(3) 18.6 18.3 19.0	(1) 18.6	(3) 19.6 19.6 19.7	(3) 19.9 18.3 21.1	(1) 21.5	
HY-M							(3) 20.3 20.0 20.7	(3) 20.3 19.3 21.2	(4) 20.6 19.7 21.6	(4) 20.8 19.5 22.4	(7) 20.6 [0.97] 19.6 22.5	
HY-U						(14) 19.5 [1.10] 17.5 21.7	(141) 19.2 [1.33] 16.3 22.7	(163) 18.9 [1.33] 12.8 23.0	(261) 19.6 [1.31] 16.2 24.1	(1202) 20.4 [1.53] 14.7 26.6	(208) 21.1 [1.60] 14.8 25.0	(3) 23.4 22.1 25.0
AHY-F			(4) 19.5 17.1 22.6	(30) 20.9 [1.78] 18.1 25.6	(25) 21.4 [2.14] 17.2 26.1	(11) 20.6 [1.97] 17.2 25.2	(15) 19.6 [1.17] 16.9 22.3	(32) 19.3 [1.83] 11.9 22.4	(14) 20.9 [1.64] 18.1 23.6	(9) 20.4 [0.78] 19.2 21.3		
AHY-M	(1) 22.8	(1) 21.5	(19) 20.6 [1.19] 18.3 22.3	(43) 20.9 [1.56] 19.0 25.4	(60) 20.6 [1.31] 18.2 23.5	(8) 20.8 [1.31] 18.5 23.2	(8) 20.7 [0.65] 19.4 21.4	(8) 20.1 [0.94] 18.8 21.4	(5) 22.3 [1.95] 20.1 25.3	(6) 21.0 [1.01] 19.2 21.9	(1) 21.4	
AHY-U	(6) 25.0 [1.43] 22.9 27.3	(5) 23.9 [1.96] 21.0 25.9	(1090) 21.6 [2.05] 15.1 27.9	(646) 20.8 [2.03] 11.4 29.1	(27) 20.1 [1.39] 17.4 23.2		(4) 19.9 17.6 23.4	(14) 20.1 [1.71] 18.1 23.0	(18) 19.8 [1.65] 14.3 21.7	(618) 20.8 [1.53] 15.6 28.0	(102) 21.8 [1.48] 18.3 24.9	
SY-F			(7) 20.4 [0.71] 19.3 21.1	(5) 21.2 [0.67] 20.4 22.1	(1) 22.2		(1) 22.5	(1) 19.1	(1) 23.5	(3) 20.3 19.2 21.6		
SY-M	(1) 26.1		(4) 21.3 20.2 23.1	(15) 22.3 [2.37] 19.7 29.8	(8) 20.9 [0.67] 20.3 21.5			(1) 23.1				
SY-U		(1) 24.3	(8) 21.6 [0.60] 20.7 22.5	(3) 19.2 18.5 19.8		(3) 20.3 19.9 20.6		(1) 20.8	(2) 23.9 21.7 26.0	(5) 20.9 [1.01] 20.1 22.4	(2) 21.5 21.3 21.6	
ASY-F				(2) 20.1 19.7 20.4	(2) 20.3 19.8 20.7		(1) 19.7	(2) 18.1 17.6 18.6				

Age/Sex	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
ASY-M			(6) 21.8 [1.01] 20.4 23.5	(5) 21.0 [0.80] 20.0 22.0	(1) 20.5			(1) 21.4		(2) 21.8 20.2 23.3		
ASY-U		(1) 28.1	(1) 20.2	(2) 20.2 20.1 20.3					(2) 20.2 19.3 21.1	(2) 20.0 20.0	(1) 24.1	
TY-F				(1) 25.0	(4) 21.1 20.2 22.2							
TY-M			(3) 22.4 21.4 24.2	(1) 22.0				(1) 22.1				
TY-U				(1) 20.0		(1) 23.3						
ATY-F			(2) 20.7 20.0 21.3	(1) 21.2	(1) 22.5							
ATY-M			(3) 22.1 21.0 23.0	(12) 21.3 [1.20] 18.7 22.9	(2) 20.8 20.7 20.8		(1) 23.2	(3) 21.0 19.9 21.6		(3) 20.3 19.3 22.2	(1) 22.7	
U-F									(1) 20.5			
U-M										(1) 20.0	(3) 21.0 20.0 21.8	
U-U							(1) 18.2	(18) 20.5 [1.46] 18.5 22.8	(73) 20.2 [1.31] 16.7 23.0	(430) 20.7 [1.59] 11.7 26.6	(54) 21.2 [2.14] 11.9 24.6	(16) 23.1 [1.58] 20.2 26.2